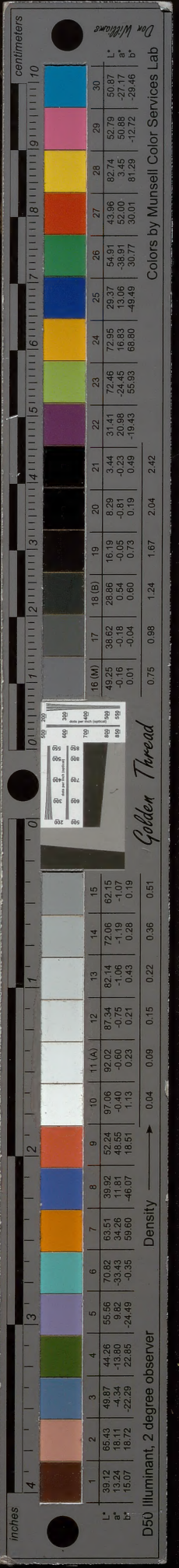


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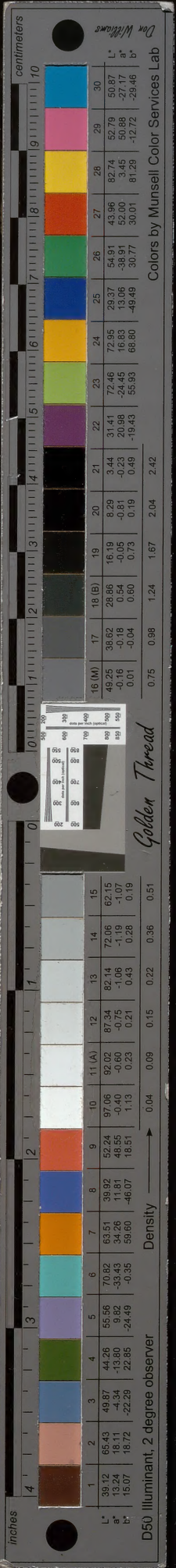
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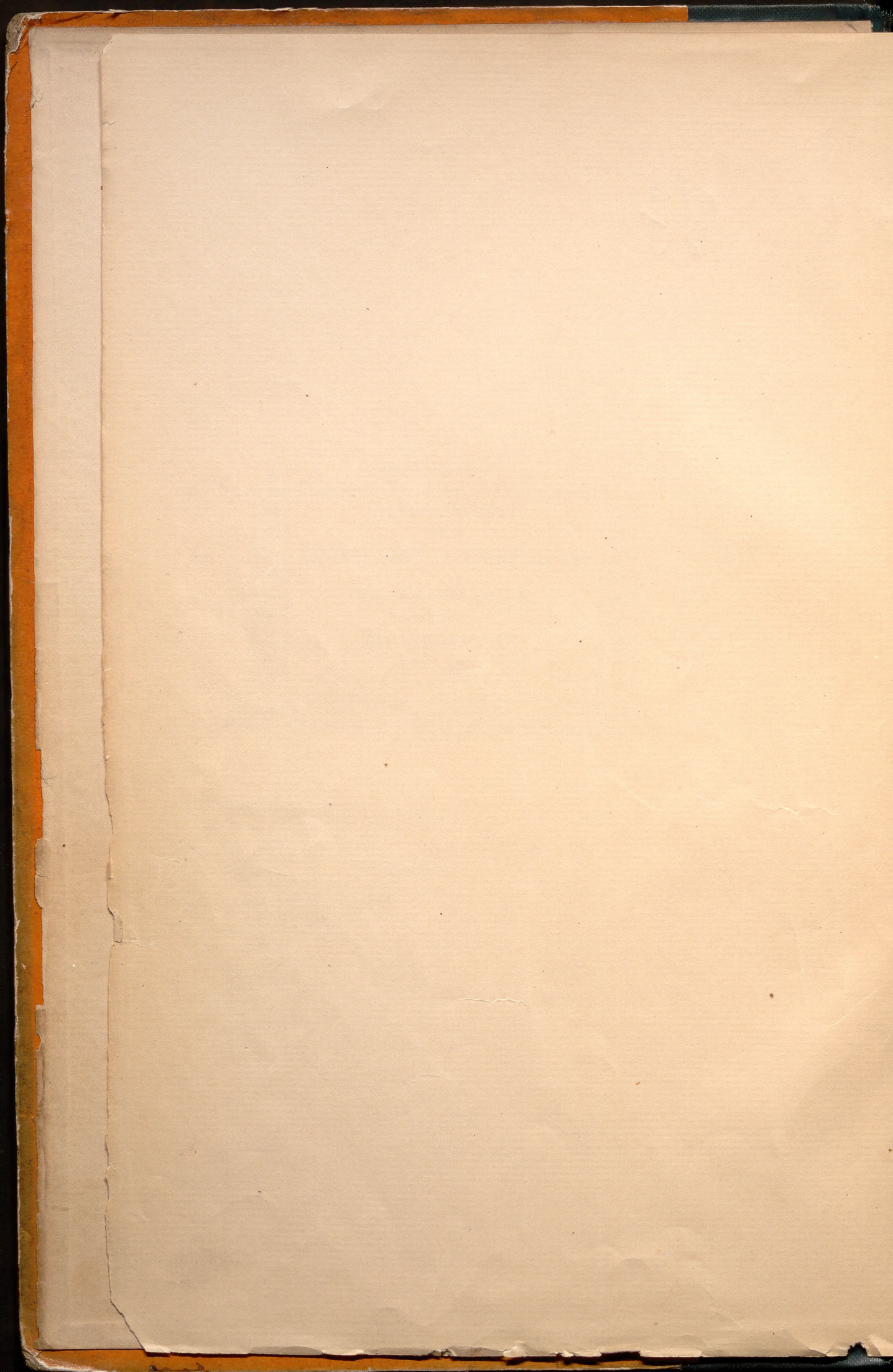
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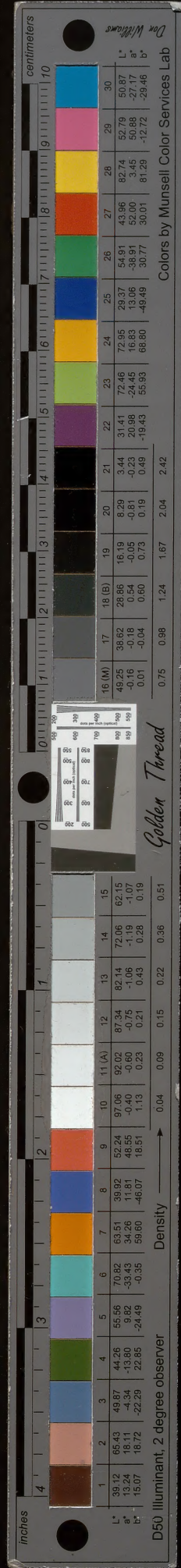
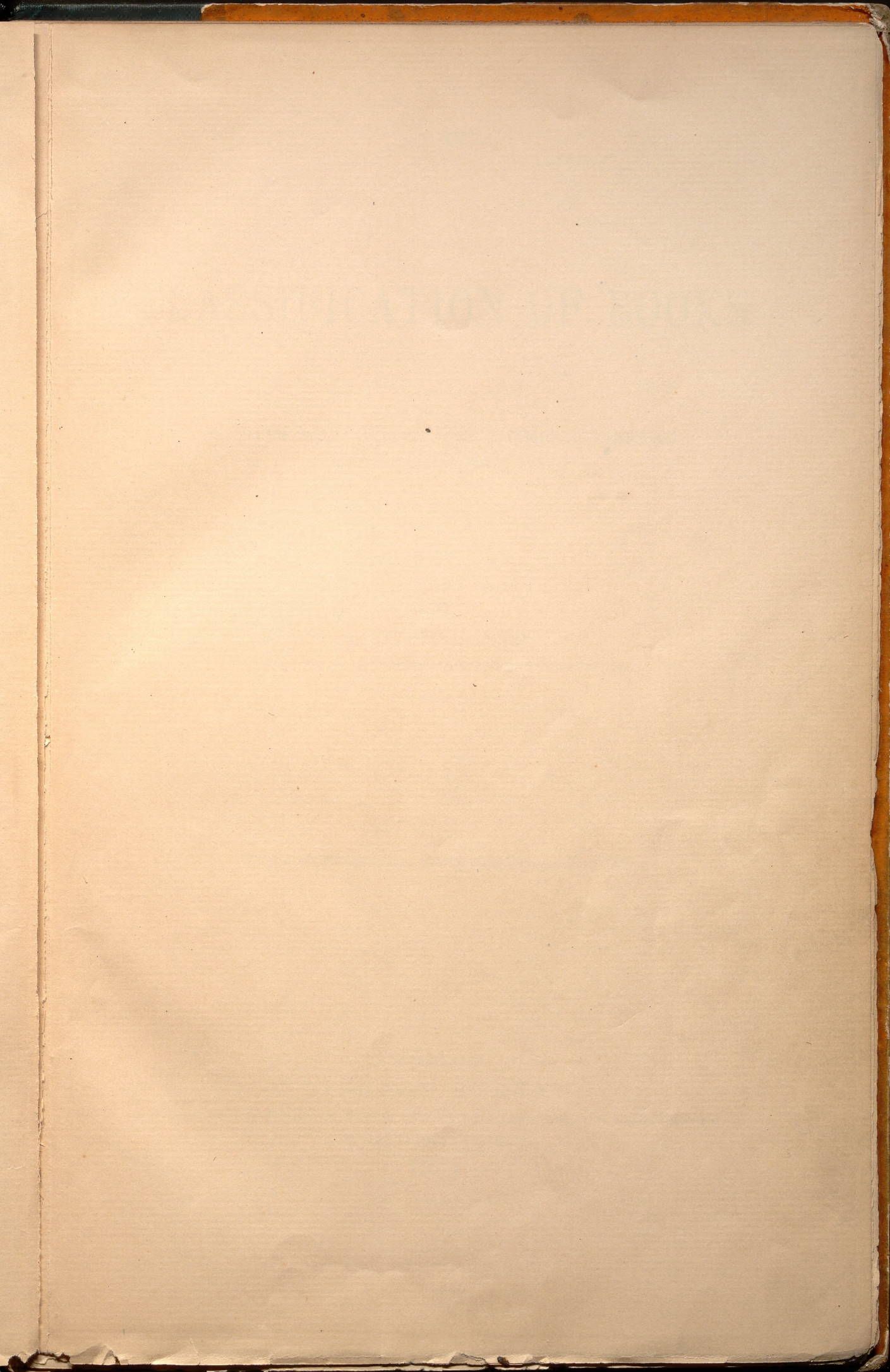
Lloyd P. Smith Esq

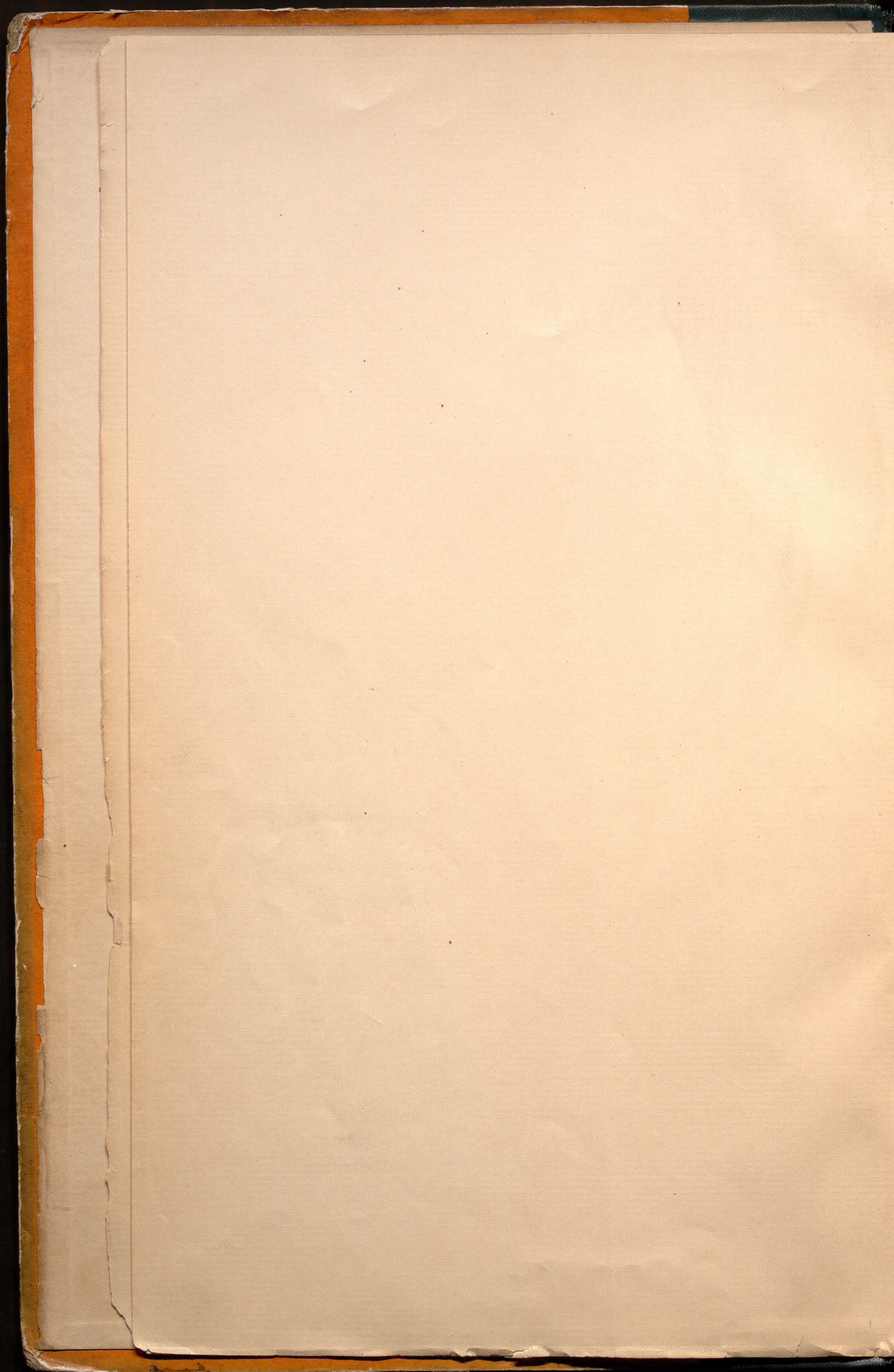
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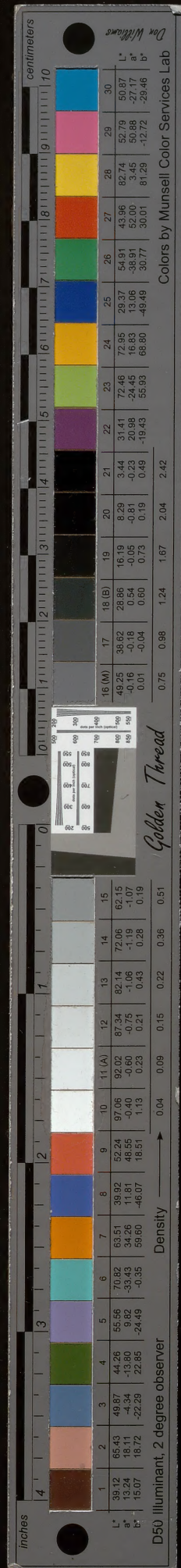
CLASSIFICATION OF BOOKS

A PAPER READ BEFORE THE AMERICAN LIBRARY
ASSOCIATION, MAY, 1882.

BY
LLOYD P. SMITH,
LIBRARIAN OF THE LIBRARY COMPANY OF PHILADELPHIA.

Expertus disces quam gravis iste labor.—*Facciolati.*

BOSTON
LIBRARY BUREAU
PUBLISHERS OF WORKS ON PUBLIC AND PRIVATE LIBRARIES AND LIBRARIANSHIP
32 HAWLEY STREET.
1882.



CLASSIFICATION OF BOOKS

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LIBRARY BUREAU
1882



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OF
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FOUNDER OF THE PHILADELPHIA LIBRARY

MDCCXXXI

AND ITS FIRST LIBRARIAN

JAMES LOGAN

FOUNDER OF THE LOGANIAN LIBRARY

MDCCCL

AND

JAMES RUSH

FOUNDER OF THE RIDGWAY BRANCH

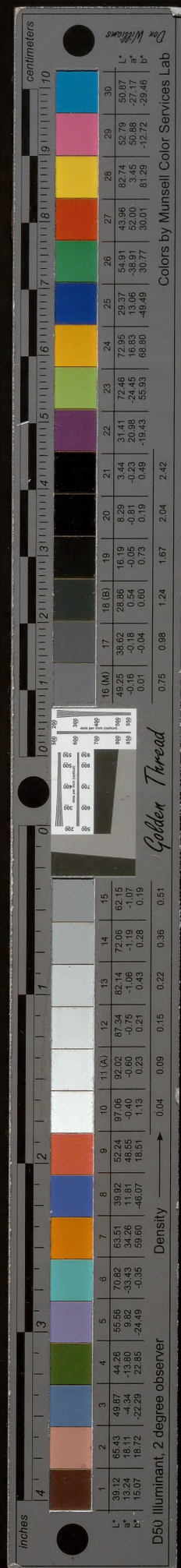
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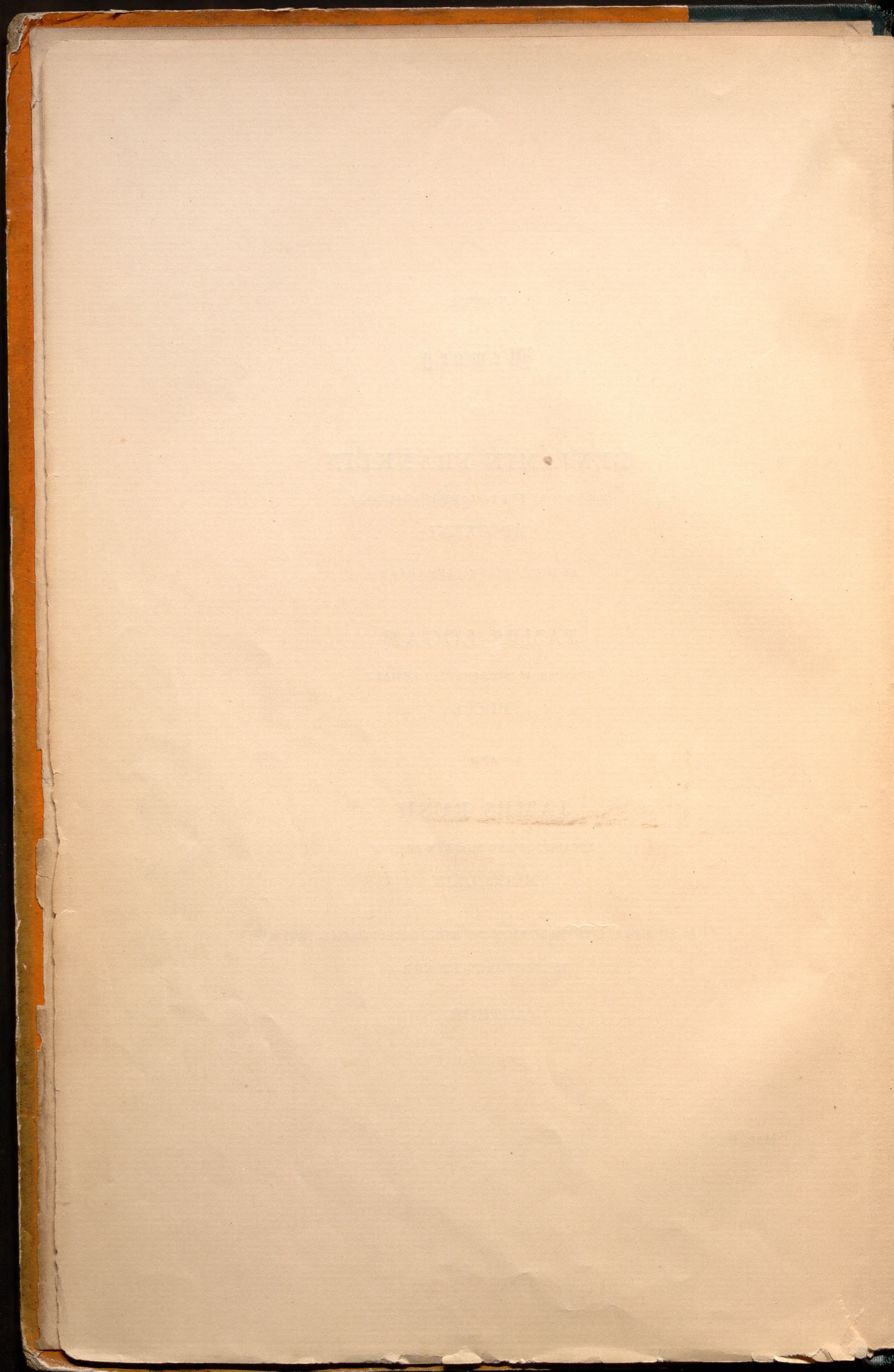
THIS HUMBLE CONTRIBUTION TO BIBLIOGRAPHICAL SCIENCE

IS INSCRIBED BY THE

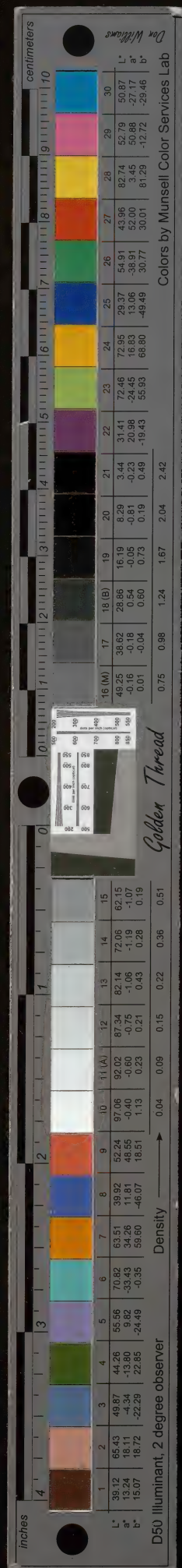
AUTHOR.

MAY, 1882.





A PLAN
FOR THE
CLASSIFICATION OF BOOKS
AS WELL IN A
PRINTED CATALOGUE
AS ON THE
SHELVES OF A LIBRARY.





INTRODUCTION.

HOWEVER they may differ on the subject of cataloguing, librarians are agreed that books should be arranged on the shelves according to subjects. Experience teaches that it is impossible to attach too much importance to the advantages flowing from a wise and methodical order in the arrangement of a library. It is when it comes to systems of classification that experts—a limited number—begin to differ; and the reason is not far to seek. It is mainly because of the hardness of the task, which is so great that Aristotle, who executed it for the King of Egypt, was said by Strabo to be the only man who was ever able to arrange the books of a large library in an orderly and systematic manner. From that time to the present, the classification of human knowledge has occupied, more or less, the attention of some of the wisest of mankind, including such men as Bacon, Leibnitz, D'Alembert, and Coleridge. I refrain from wearying you with an account of the various systems which have been put forward from age to age. Those who wish to examine the history of the subject, will find it set down in detail in Woodward's *System of Universal Science* (Philadelphia, 1816). Suffice it to say that the genius of orderly arrangement seems, in modern times, to have taken up its special abode with the French, who have succeeded as well in classifying books as they have in ordering some other things usually considered more important.

The system of dividing a library into five classes—Theology, Jurisprudence, Sciences and Arts, Belles Lettres, and History, the whole followed or preceded by Bibliography—is commonly ascribed to the great French bibliographer, G. F. De Bure, a bookseller of Paris (1731–1782); but he appears to have merely adopted the plan of his predecessor in the same business, Gabriel Martin (1679–1761), who himself borrowed from Jean Garnier's *Systema bibliothecæ collegii Parisiensis Societatis Jesu* (1678). The plan, being found to work well in practice, has since been commonly followed in the catalogues and libraries of France, and, indeed, of the Continent generally; and in the arrangement of its books on the shelves, a system not very different is now practised at the British Museum. This plan was also deliberately adopted, but not without valuable improvements in detail, in the preparation of his catalogue of the Philadelphia Library (1835) by my learned and painstaking predecessor, the late George Campbell. That classified catalogue was a thorough and scholarly piece of work, to which was added a copious alphabetical Index; but in the mean time the Philadelphia Library had no classification on the shelves, it being probably the only large collection of books in the world where the volumes were arranged by sizes only, and in the order of accession. The defects of that system—or want of system—were so serious that, on the occasion of removing the Loganian Library and the greater part of the books of the Library Company, in 1878, to the Ridgway Branch, the opportunity was embraced to make a more logical disposition of them on the shelves, and one based, as to its main features, on the



system of the printed catalogue of 1835. It was in the actual execution of this work—*res sane magni momenti multique sudoris*—that the accompanying classification was wrought out; and as a bibliographical system, to be of value, must be the fruit of experience rather than an effort of genius, it has occurred to me that my fellow-members of the American Library Association might possibly find in it some useful suggestions.

The classification is intended to be permanent only so far as the six main classes A E I O U and Y, and their sub-classes a, b, c, d, e, etc., are concerned. In its details it is open to modification to suit the needs of libraries devoted mainly to the collection of one or a few classes of books. As the volumes multiply on the shelves, it is obvious that the divisions 1, 2, 3, 4, etc., can be added to indefinitely,—by each librarian for himself—without deranging the system. Moreover, the divisions can themselves be subdivided by supplying arbitrary marks. For example, under Zoology (I 16), I have made but one subdivision, that of Birds (I 16 +), whereas an Academy of Natural Sciences might well find it expedient to distribute their works on the animal kingdom in accordance with the elaborate plan set forth in Agassiz's *Essay on Classification*. On the other hand, a small library may content itself with the classes and sub-classes marked by letters only, or even with the classes A E I O U Y alone. It is to be remarked in passing that, by this arrangement, whatever improvements may be made from time to time in the details of the system, the books have always a relative, and not a fixed location on the shelves, so that they may be moved from shelf to shelf, from case to case, and from building to building, without altering the shelf marks.

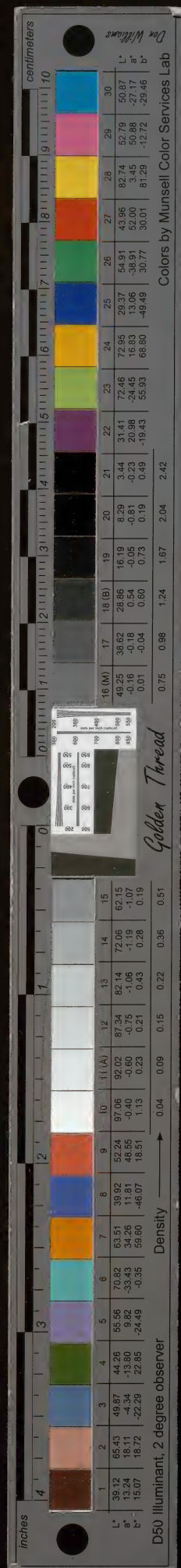
The system is available, not only for the arrangement of books on the shelves, but also for their classification in a subject catalogue. Indeed, the shelf lists themselves form—when properly made—a subject catalogue, which may be sent off to the printer as soon as there is money enough to pay for setting them up in type. It is true that most of the ends of a subject catalogue may be gained by the modern dictionary catalogue—combining authors and subjects in one alphabet—which it is to the credit of Mr. Poole to have invented, and of Messrs. Cutter, Noyes, and others to have developed; but, nevertheless, to my mind, the ideal printed catalogue is a classified one, with a copious alphabetical index. Suppose that the British Museum had such a printed catalogue to-day, how much would the usefulness of that great Institution be enhanced!

It is only too obvious that the librarian who adopts this, or indeed any plan for the classification of books, must sometimes be at a loss to decide exactly under what subdivision to place a particular book, the problem, in difficult cases, being quite the highest proposed to a bibliographer. The rule is to place each book under its most specific class, but nevertheless two successive librarians—or indeed the same one at different times—might, without impropriety, classify the same book under different heads. To secure uniformity, therefore, and to make the work of cataloguing and classifying books arranged on this plan more easy, the accompanying Synopsis and Classification are followed by an alphabetical Index. In its preparation, I have made use of the subject Index of my ingenious friend Mr. Melvil Dui, in his excellent *Classification of a Library* (Amherst, 1876). By his kind permission, it is

here reproduced, with the addition of about nine hundred new catchwords which were found desirable in practice; for some of the latter I am indebted to Mr. F. B. Perkins' *Rational Classification of Literature* (San Francisco, 1881), which reached me as these sheets were passing through the press. *The alphabetical class-signs in my system are placed alongside of the numerical class-signs in Mr. Dui's system.* The reason for adopting an alphabetical instead of a numerical designation of the several classes and sub-classes was simply to prevent confusion in calling for a book by its number, it being thought that the number of the class might be mistaken for the number of the book. This, of course, is a matter of detail which may be changed without affecting the system.

Whether the classification itself is more or less logical than that of others who have attempted this hard and thankless, but needful task, it is not for me to say. It has at least the merit of not being made out of nothing, but rather of having been evolved from a pre-existing system which has the approval of the best bibliographers of Europe, and which has been tried for centuries, and not found wanting. *Nolumus leges Angliæ mutare.* I believe the groundwork of the system to be good, but I know very well that the building I have raised upon it can be improved; and therefore any one who thinks of making use of either would do well to study—among others—the *Table Méthodique* of Brunet, and the classification—which, however, is rather crude—of the British Museum. The latter can be consulted in Henry Stevens' *Catalogue of the American books in the Library of the British Museum* (London, 1866). Mr. Dui's and Mr. Perkins' highly original systems are also full of valuable suggestions, though the former is, to my thinking, not sufficiently worked out in detail, while the latter, with its six thousand classes—ten times as many as are used in the British Museum—is, if anything, too much so. The reference alphabet—first used by Mr. Dui—gives their systems of classification, in point of practical utility, a decided advantage over others; and Mr. Dui's decimal division brings in an element of simplicity which has, in theory at least, some obvious advantages. It is also steadily making its way into practice, and I understand there are more American libraries now using that plan than any other. Mr. Perkins "believes that his system accomplishes some good things which Mr. Dui's does not, and cures some defects in it:" and I agree with him. If I did not think that mine was on the whole better than either, I should not publish it. Nevertheless, I am free to say that in working out the details I consider Mr. Perkins' arrangement in some respects better than my own, and if I had seen it in time I could have improved mine in several ways. Mr. Swartz's Mnemonic System, and that of Mr. Cutter—described in Vol. IV. of the *Library Journal*—are also worthy of the highest consideration. Doubtless the true Classification of Books, at once rational and convenient in practice, is a thing yet to be established, but at any rate the materials for it exist; and if the present System with its Index—on which I have been working more or less for the past four years—contributes in any degree to make the labors of those who follow me more easy, it is all that I expect.

I have only to add my thanks to our excellent Secretary for his kindness in undertaking the publication of the work, and to say that its profits, if any, are to go to the American Library Association.



SYNOPSIS.

Class A. RELIGION.
E. JURISPRUDENCE.
I. SCIENCES AND ARTS.
O. BELLES LETTRES.
U. HISTORY.
Y. BIBLIOGRAPHY AND THE HISTORY OF
LITERATURE.

Subclasses. a, b, c, d, e, etc.

Divisions. 1, 2, 3, 4, etc.

Subdivisions. +, △, □, IV, V, VI, etc.

CLASSIFICATION.

CLASS A. RELIGION.

(Cyclopædias of Religion are classed A only.)

- a Treatises on Toleration.
- b Treatises on Natural Religion and on the existence of a God, His attributes, etc.; Theism, Pantheism, Atheism. (See A o 8.) Bridgewater treatises.
- c The Holy Scriptures. Texts, Paraphrases, and Versions.

- 1. Bibles.
- 2. Selections from both Testaments.
- 3. Old Testament. *and Parts of the Old Testament*
- 4. Apocryphal books. *Teaching of the Apostles, Acts of Paul, etc.*
- 5. New Testament.
- 6. Parts of the New Testament.

Note: under each division Versions are placed in the alphabetical order of their languages, preceded by Polyglots.

- d Scripture histories, dictionaries, cyclopædias, concordances, chronologies, and harmonies. The life of Christ.

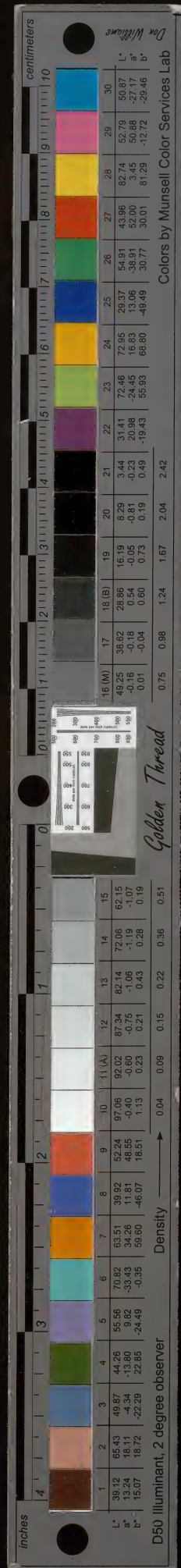
Authentic 1. Treatises on the Canon *Revisions. Let. hist. of Bibles.*

- e Criticism, interpretation of, and commentaries on, the Scriptures.
- f Treatises on the Truth and Evidences of revealed religion. Hulsean, Bampton, Boyle, and Bohlen lectures.
 - 1. Faith and reason, Science and revelation.
 - 2. Miracles. The resurrection of our Lord.
 - 3. Inspiration.

- g Creeds, catechisms, liturgies, and treatises thereon. The Christian Year. Rites and ceremonies, sacraments, ordinances.

- 1. Missals, breviaries, etc. Pontificale Romanum.
- 2. Book of Common Prayer.

- h Collections of prayers and meditations. The Lord's Prayer, Answers to prayer, Prayer meetings, etc. *Thomas à Kempis*



- i Metrical versions of the Psalms; Hymns and works thereon.
- k Ancient and modern theologians. The Fathers, and works on them.
- l Doctrinal, practical, controversial, and miscellaneous divinity. Systematic and pastoral theology.
 - 1. The controversy between the Roman Catholic Church and Protestantism, etc. (See A o 11, 12, 13, 15 +.)
 - + . Infallibility.
- m Sermons, pastoral letters and charges, etc. Homiletics. Pulpit elocution and oratory. *Religious anecdotes.*
- n Jewish antiquities, history, customs, literature, philosophy, etc. Books (other than the Bible) printed in Hebrew. The Talmud, rabbinical literature, the Kabbala.
 - 1. The Sabbath and the Lord's Day.
- o Ecclesiastical history; Christian antiquities; the primitive church.

Note: Under each of the following heads are placed controversial, periodical, and other works illustrating the history of the denomination in question.

 - 1. Oriental Churches.
 - 2. Latin (See A o 13, and U u 2).
 - + . Jansenists, Quietists, Mystics, Port Royal. Old Catholics.
 - △. Gallican Church, etc.
 - . Spain, etc.
 - IV. R. C. Church in the U. S. and Canada.
 - 3. Anglican and Protestant Episcopal. Christianity in England.
 - + . Reformed Episcopal Church.
 - 4. Scottish and Presbyterian.
 - 5. Congregational; the Puritans; N. England.
 - 6. Baptist. Works on baptism.
 - 7. Methodist.
 - 8. Unitarian and Universalist.
 - + . Arian and Socinian history and controversy.
 - 9. Mormon. Utah.
 - 10. Society of Friends, including lives and works of its founders. Progressive Friends.
 - 11. Other denominations. The Reformation. Protestant sects. (See A l 1.)
 - + . Reformation in Germany: Luther and the Lutheran Church.
 - △. Reformation in Switzerland, Holland, etc. Calvin and the Reformed Church.
 - . Reformation in France. The Huguenots.
 - IV. " Italy.
 - V. " Spain.
- 12. History of the Inquisition.
- 13. Collected lives of Saints, Popes, Cardinals, etc. Martyrologies. (See U z, and U u 2.)
- 14. Collected religious biography. Collected lives of missionaries. (See U z.)

15. Bible, missionary, and other Societies. Missions. *Salvation Army, L. Sch.*

+ Monastic and religious Orders. Flagellants. Lollards.

△. Society of Jesus.

Note: For North American Jesuit Relations, etc., see U y 9 +.

16. History of dogma and heresy. Councils, their decrees and canons.

p Islam.

1. Life of Mahomet.

2. The Koran, etc.

q Paganism. Mythology.

1. Comparative mythology; views of all religions; science of religion; origin of belief; symbolism; serpent worship; Sabianism. (See I e, Of 7, U i.) *Hilbert Lectures, Brāhma - Samaj.*

2. Greek and Roman mythology.

+ Oracles; Sibylline books; Eleusinian mysteries, etc.

3. Mythology of Germany and Northern Europe. *Eddas.*

4. Hinduism; Buddhism; Jainism; the Vedas; the Bagvat Gita, etc. Works in Sanskrit and translations thereof. *Lamaism.*

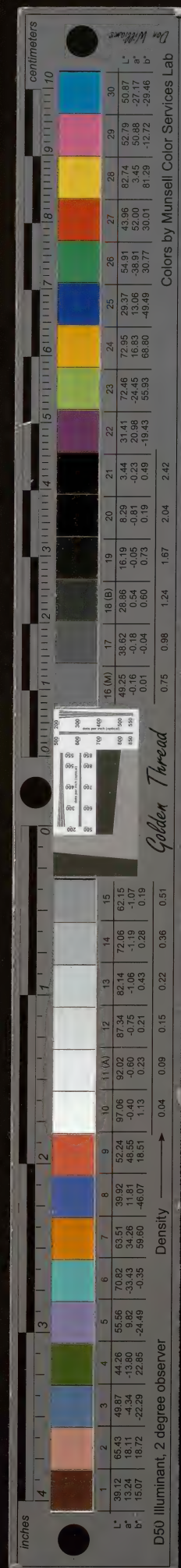
5. Parseeism. Zend-Avesta. Culte de Mithra.

6. Religions of China and Japan. Chinese classics and literature. (See U x 2, and O a 2 note.)

7. Other religions. (See U f 4.)

r Theological and religious periodicals. (See A o note.)

Aglyt. Eastern Buddhism. Theosophy

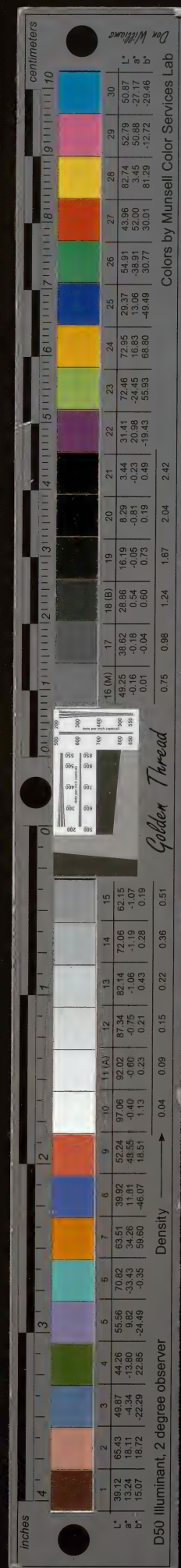


CLASS E. JURISPRUDENCE.

- a General treatises on laws: legal miscellanies, periodicals, and history; professional ethics; the law of evidence; oaths; courts.
 - 1. Law dictionaries.
- b Law of nature and of nations. Sea laws. Diplomatic and consular manuals.
- c Treaties.
- d Ancient, civil, feudal, and ecclesiastical law.
- e Common law and Equity.
 - 1. Law of real property. Conveyancing.
 - 2. Commercial law.
 - 3. Law relating to women, marriage, and divorce. (See I g 2.)
- f Constitutional and municipal law and commentaries.
 - 1. The United States. *Acts of Congress*
 - 2. Particular States, alphabetically.
 - 3. Great Britain. *(Law, not history.)*
 - + . Constitutional history.
 - △. Colonial.
 - 4. Continental Europe.
 - 5. Asia.
 - 6. Other countries.
- g Parliamentary law and practice. Rules of order.
- h Criminal and penal law. Police and prison discipline. Houses of refuge and correction. Detectives. Crime.
 - 1. Capital punishment.
- i Medical jurisprudence.
- k Trials.
 - 1. Criminal and State trials.
 - 2. Reports. Trials in civil cases.
 - + . English.
 - △. American, alphabetically by states.
 - 3. Individual and particular cases.
 - 4. Ecclesiastical trials.
- m Patent law; Copyright.
- n Military law; treatises on courts martial. Army regulations. Militia laws. *Was added*
 - 1. Trials by court-martial.

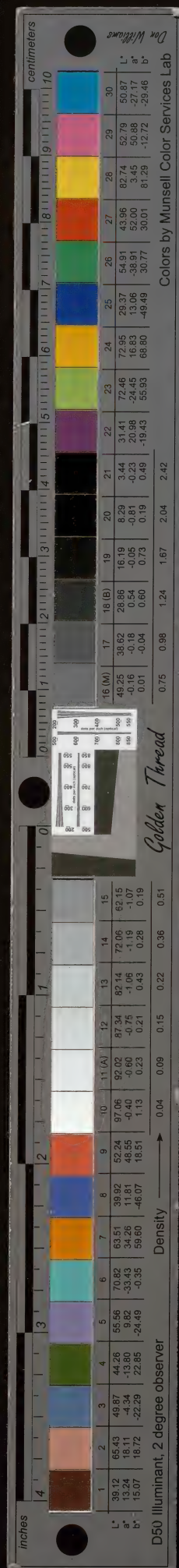
CLASS I. SCIENCES AND ARTS.

- a Philosophy: general and miscellaneous works. (See I c.)
 1. History of philosophy. Philosophical dictionaries. *Times of Philosophers.*
- b Cyclopedias and dictionaries of arts and sciences. Collections of useful knowledge.
 1. French, German, etc.
- c Metaphysics. Psychology. (See I a.)
- d Physiognomy and Phrenology. Temperaments.
- e Occult philosophy. Prophecies other than Biblical. Swedenborg and his works.
 The future life considered apart from Revelation. (See A q 1, U i.)
 1. Alchemy.
 2. Astrology and palmistry; fortune telling; oneiromancy.
 3. Demonology; witchcraft; apparitions; hallucinations; stigmata.
 4. Modern Spiritualism; mesmerism; somnambulism; dreams; sleep: *hypnotism*
- f Logic.
- g Moral philosophy; Ethics. *(man)*
 1. Ethical treatises on the Passions, Virtues, Vices, Peace, Solitude, Happiness, Suicide, etc.
 2. Marriage and the condition, duties, and rights of women; sex in nature; the family. (See ~~EE~~ *EE 3*)
 3. Etiquette, courtesy, the character of a gentleman. (See U h.)
 4. Casuistry, Christian morals. Cruelty to children and animals. Vivisection. *Business ethics.*
 5. Temperance. Prohibitory and license laws. (See I n 2 +.)
 6. Lotteries and gambling.
- h Education.
 1. Elementary works for youth. (See O f 2 +.)
 2. Universities, Colleges, Military and Naval Academies, Theological, Industrial, and Common Schools. U. S. and State Reports. (See I n 9, U y 7 +, U y 8.) *Educ. hist. University collections.*
 3. Instruction for the blind, deaf, etc. (See I i 7, I n 8.)
 4. Self-culture. Debating societies and reading clubs. *Golden Thread*
- i Government and politics, general treatises; histories.
 1. Political economy, population, pauperism, wages, labor, strikes, co-operation, communism, socialism.
 2. Money, the precious metals, mints, finance, banks, investments, usury, interest tables, paper credit, national debts, taxation. (See U p 5 +, U y 7 Δ.)



3. Trade, colonization, commerce, weights and measures, auctions.
 - + . History of commerce, colonization, and prices. Tariffs (except U. S., U y 7 Δ), mails, commercial dictionaries, periodicals, etc.
 - Δ . Reports of Companies, including Boards of Trade. Trade unions. Guilds.
 4. Slavery and the slave trade. (See U y 5.)
 - + . African colonization. Liberia. (See U d 12 vi, U x 10.)
 5. Internal improvements, civil engineering, water-works, roads, canals, bridges, tunnels, wheel carriages, etc.
 - + . Histories and reports. Canal companies. (See U x 4 +.)
 6. Railroads, tramways, locomotives, including reports of companies, railway guides, and excursions. (See U c 1.) Railway engineering.
 7. Hospitals (see I n 8), dispensaries, and poor-houses. Lazarettos, quarantine. Public and private charities.
- k Physics. Natural philosophy. Dictionaries and encyclopedias; general and miscellaneous treatises, systems, histories, etc. Popular science.
1. Electricity, galvanism, magnetism, heat, gravitation, force.
 2. Electricity, etc., applied to the arts. Telegraphs, telephones, etc.
 3. Meteorology, pneumatics, winds, storms, the barometer, magnetic observations, climate. *Signal service.*
 - + . Ballooning.
 4. Chemistry.
 5. Applied chemistry.
 6. Spectrum analysis.
- l Natural history: General and miscellaneous works. Cosmology. The creation. Museums. Transactions. Collectors' manuals. (See I y.)
1. Natural history of different countries, etc.
 2. Geology, palæontology, fossils, glaciers, volcanoes, earthquakes, waters, etc.
 - + . Baths, springs, mineral waters. Water analysis.
 - Δ . Petroleum.
 3. Geological reports, maps, etc., alphabetically arranged. *Local geology.*
 4. Mineralogy, mines, metals, reduction of ores.
 - + . Coal and iron. (See I u 3.) Peat.
 - Δ . Mining companies, etc. *Mines of states, countries, etc.*
 5. Botany.
 - + . Trees and shrubs. (See I u 11 +, I u 12.)
 - Δ . Transactions and periodicals.
 6. Zoology, Taxidermy, Instinct. *Insects. Fishes.*
 - + . Birds.
 7. Biology, origin of species, Darwinism, evolution, spontaneous generation, life.
- m Anthropology, the natural history of man, the unity of the human race, etc. (See U f 1.)
1. Descent of man; heredity.

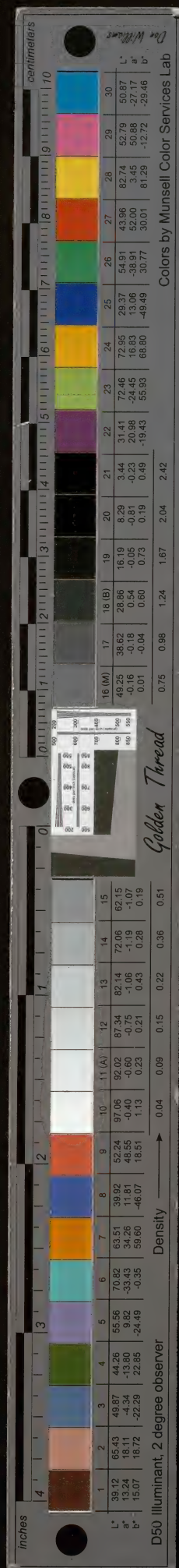
2. Ethnology.
 +. The negro.
 △. Crania, etc.
3. Sociology; history of civilization and progress; social science; modern thought. *Village communities. Spencer.*
- n Medicine: general and miscellaneous works, medical dictionaries, and periodicals.
1. Anatomy and physiology; histology. Comparative anatomy.
2. Materia Medica. Pharmacopœias, dispensaries, medical botany.
 +. Poisons; stimulants and narcotics; tobacco; opium; hasheesh.
3. Theory and practice of medicine. Nursing. *Anæsthetics.*
 +. Professional ethics.
 △. Change of air.
 □. Homœopathy, hydropathy, etc.
4. Surgery—including military surgery—and obstetrics. Gynæcology.
 +. Dentistry.
5. Treatises on particular diseases (alphabetical by subjects).
6. Diseases incident to various places, professions, etc.
7. Treatises on health, diet, regimen, longevity, training, bathing, physical beauty; boards of health, public hygiene, etc. *Massachusetts State Reports.*
8. Mental disorders, including Reports of idiot schools and asylums for the insane. (See I i 7.) The brain and its connection with mind.
9. History of medicine and of medical schools, departments, etc. Medical directories. *Lives of physicians.*
- o Mathematics; general and miscellaneous works. Histories.
1. Arithmetic, algebra, calculus, quaternions.
2. Geometry, trigonometry, conic sections, surveying, mensuration.
3. Logarithms; mathematical tables and instruments.
4. Theory and calculations of probabilities; life annuities.
 +. Insurance and insurance companies.
- p Astronomy, astronomical tables, and instruments. Theory of the tides.
1. Almanacs, ephemerides, etc.
2. Treatises on the Calendar. (See U e.)
3. Plurality of worlds.
- q Mechanics, hydrostatics, hydraulics, descriptions of machines, steam engines. (See I i 6.)
- r Optics, light, vision, the eye. Acoustics. *The microscope (See 2074)*
1. The microscope and its revelations; stereoscope; kaleidoscope.
2. The phonograph, etc.
- s The fine arts; general and miscellaneous works; dictionaries; periodicals. *Æsthetics.*
1. Arts of design; perspective; beauty in art.
2. Painting, enamelling, harmony of colors, chromatography, etc. (See U z 1 △.) *Reynolds. Modern painting. (See 1874)*
3. Engraving, lithography.



4. Sculpture, bronzes, seal engraving, wood, paper, and wax carving; prints of statues, monuments, etc. *Seals.*
5. Photography and photographs; photolithography.
6. Books of prints, catalogues and descriptions of pictures, galleries, etc. (See U z 3.)
 - + Illustrated journals.
 - △. Caricatures and comic papers.
 - . Picturesque views, tours, etc.
7. Music and musical composition. Criticism, dictionaries, periodicals, history, etc.
 - + Art of singing. *The voice (see Sr)*
 - △. Songs, operas, and oratorios, with music. (See O e 7.)
 - . Sacred music.
- IV. General and secular music.
- V. Single instrumental compositions.
- VI. Particular instruments.
8. Ecclesiastical art, Christian iconography, church needlework and vestments.
9. Anatomy for artists.
10. History of art. (See U z 1 △.)
- t Architecture. General works, histories, periodicals, etc. Ancient architecture.
 1. Church and gothic; bells; views of churches. *Murray's cathedrals*
 2. Domestic and rural.
 3. Masonry and bricklaying; tiles; cements.
 4. Carpentry and turning.
 5. Warming, lighting, ventilating, and draining buildings. Lightning rods, gas, photogenic oils, fires, and fire engines. *fuel gas*
 6. Furniture, house painting, decorative arts, etc.
 - + Vases, gems, precious stones, finger-rings, plate, bric-a-brac. *gem*
 7. Views and descriptions of edifices, ruins, arches, columns, etc. (See U f.)
 8. School architecture.
- u Arts and trades, general works, patents, inventions, periodicals, dictionaries, histories.
 1. Art of memory.
 2. Book-keeping.
 3. Iron manufactures and trade. Steel. (See I 1 4 +.)
 4. Other metals; metallurgy in general.
 5. Textile fabrics and materials. Dyeing and bleaching. (See I u 14.)
 6. Watch and instrument making; horology; dialling.
 7. Carriage and cabinet making and painting.
 8. Leather, shoes, etc. Caoutchouc.
 9. Pottery, porcelain, terra cotta, ceramic art, bricks, glass, jappanning.

Jewelry

10. Other arts and trades, arranged alphabetically.
 +. Brewing and distilling; gauging; bar tending.
11. Agriculture and gardening. Agricultural chemistry and products. *Husbandry*
 +. Fruits and fruit trees, vineyards, wines, vinegar.
 △. Agricultural and horticultural associations. U. S. and State Reports. *Dept. of agriculture*
 □. Fish culture. *Fish commission*
 IV. Insect enemies.
12. Landscape and ornamental gardening, rural life, forestry, rural cemeteries, etc. (See I 15 +.) *Forestry of states etc.*
13. Treatises on horses, cattle, dairy products, sheep, poultry, pigeons, etc. *Husbandry*
 The veterinary art, farriery.
14. Treatises on silkworms and bees. Silk industry. (See I u 5.)
15. Treatises on cookery and carving. Gastronomy. Food. Markets. Sugar boiling.
16. Industrial exhibitions and chefs d'œuvre. South Kensington Museum and Conferences. The Centennial of 1876, etc.
17. Miscellaneous. Domestic economy. Needlework. (See I s 8.) Toilet arts.
- v Navigation, naval architecture, naval tactics. (See U b 10 and I p.)
1. Historical works. The merchant service. (See U p 8, U y 14.)
 2. Diving; torpedoes.
 3. Sea fishing. *Boating*
- w Military art, militia, military engineering. (See E n, I h 2, U y 7 □.)
1. Military history. (See U p 8 and U y 14.)
 - + . Waterloo campaign.
- x Recreative arts.
1. Field sports, cricket, angling, the dog, horsemanship and horse racing (See I u 13), coaching, velocipedes, skating, rowing, and swimming. Bull fights, cock fighting, boxing, wrestling, and fencing. Trapping, the rifle, sporting guns and tackle, game birds and animals, etc. *Hunting*
 +. Sporting tours, anecdotes, magazines, etc.
 2. Parlor pastimes, legerdemain, enigmas, conundrums, charades, and dramas; dancing. Cards, draughts, dominoes, backgammon, billiards, etc.
 +. Chess.
- y Memoirs, histories, and transactions of scientific institutions; academies. *Academies*
 (See I l.)
1. American. *Smithsonian*
 2. English, Scotch, and Irish. The British Museum. *Elphinstone*
 3. French.
 4. German.
 5. Other.
- Note: Institutions devoted to a particular branch of science will be classed accordingly.*
- z General scientific periodicals, year book of facts in science and art, etc.



CLASS O. BELLES LETTRES.

a Grammar and lexicography; general works. Philology. Alphabets.

1. Greek and Latin languages.
2. Oriental, European, and other languages, arranged alphabetically.

Note: Books printed in Arabic, Pali, and other oriental and outlandish characters, except Hebrew (A c 3 and A n) and Sanscrit (A q 4) and Bibles (A c) and Hieroglyphics (U f 4) will be classified under O a 2.

b Rhetoric, criticism, oratory, gesture, elocution, art of conversation and of reading aloud. *Not criticism of paintings (See 582 + p. 57.)*

1. Exercises in elocution. Speakers and readers.
2. Art of composition and of making translations and abridgments. Punctuation.

c Orations and orators; speeches, addresses, discourses.

1. Collected funeral orations. (See U z.)

d Poetry; treatises, history, etc. *Criticism of single poets*

1. Greek and Latin poetry and translations. Also treatises thereon.
+. Homer.

2. English poetry and epigrams. (See U p 3 + and U p 4 +.).

+. Songs and ballads. Chapbooks.

△. Scottish poetry and treatises thereon.

□. History of English poetry. *Criticism of Engl. poetry. Lives of Engl. poets.*

IV. Collected British poets and selections in the English language.

V. Collected American poets and selections.

3. French poetry.

+. Early, Provençal, and patois; Chansons de geste, the troubadours and treatises thereon.

4. German and Dutch poetry and poets.

5. Italian poetry; also treatises and criticisms thereon.

6. Other languages.

7. Macaronics.

Note: In Poetry, Drama, and Fiction, translations into English (except of works written in Latin and Greek) are classed respectively O d 2, O e 2, and O f 2.

e Drama. Treatises on the stage and histories thereof. Passion plays.

1. Dramatic works; Greek and Latin and translations.

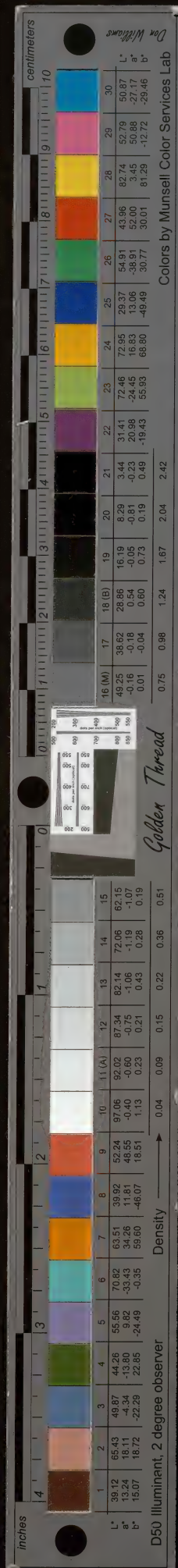
2. " " English.

+. Shakespeare, including his life, etc.

3. Dramatic works: French.

4. Dramatic works : German.
 5. " " Italian.
 6. " " Other languages.
 7. Musical dramas. Librettos of operas and oratorios. (See I s 7 Δ .)
- f Fiction : treatises, history, etc.
1. Works of fiction, wit and humor, imaginary voyages and adventures, fables and legends; Greek and Latin and translations.
 2. English fiction.
 - + Juveniles.
 3. French fiction.
 4. German fiction.
 5. Italian fiction.
 6. Other fiction.
 7. Folk lore, fairy tales, nursery rhymes, etc. (See A q 1.)
- g Anecdotes, proverbs, maxims, dialogues, emblems, mottoes, anagrams.
1. Ana : table talk.
 2. Proverbs.
- h Epistolary writers.
1. History and art of letter writing.
- i Polygraphy ; or the collected works of authors who have written on various subjects and in various styles.
1. Greek and Latin, and translations.
 - + Collected editions of the classics.
 2. English.
 3. French.
 4. German.
 5. Italian.
 6. Other.
- k Pamphlets on various subjects bound up together.
- l Pamphlets unbound and awaiting final classification.
- m Literary miscellanies : essays, extracts.
1. Greek and Latin.
 2. English.
 - + Early English Text and similar printing societies and collections. *Shakespeare*
 3. French.
 4. German.
 5. Italian.
 6. Quotations. Concordances other than of the Bible (A d). Index Society ; general indexes to periodicals.
 - + Greek, Latin, etc. *Italian French German*

Note : The Index to a particular work, to an author's collected works, and to a particular periodical, will be placed therewith.
- n Literary journals, magazines, reviews, and transactions. *Canadian*
1. American.
 - + Annuals.



2. British. *Notes & queries (English)*
3. French.
4. German.
5. Other languages.

Note: Periodicals and transactions relating to a particular subject will be classed accordingly, the publications of purely literary associations being lettered O n.

- o Registers and historical journals, statesman's year-book, etc.
- p Gazettes, newspapers, prices current, arranged by localities.
 1. History of newspapers. Newspaper directories.
 2. Newspaper cuttings, scraps, and extracts.

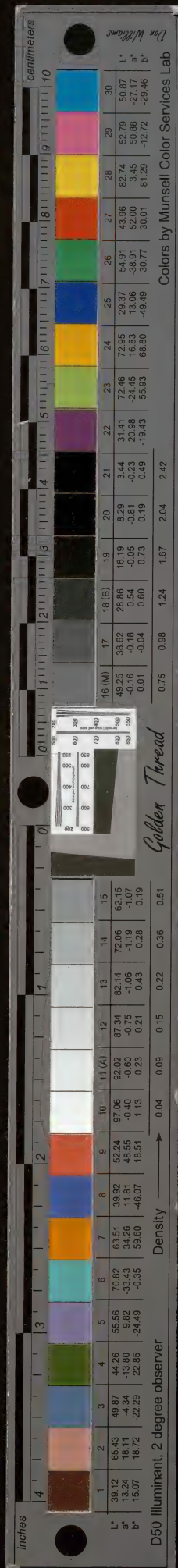
CLASS U. HISTORY.

Note: In cases where the division under History is more minute than under Voyages and Travels (e. g. U d 8 Δ , U v 10 and U x 2), Travels are reckoned as History, and vice versa.

- a Treatises on history. Historic atlases. The philosophy of history.
- b Geography, gazetteers, etc.

Note: For geographies of the several United States and Territories see U y 8.

1. Atlases, maps, and charts of the world; miscellaneous maps. Cartography.
+. Ancient.
2. Atlases, maps, charts, and plans of Europe, arranged alphabetically by countries.
3. Atlases, etc., of Asia.
4. " " Africa.
5. " " America.
6. " " the United States.
+. Maps relating to the Rebellion.
7. U. S. Coast Survey Charts and Reports.
8. Atlases, etc., of particular States, in alphabetical order, and subdivided by counties, cities, etc. (See U y 8.)
9. Atlases, etc., of Australia, Oceanica, etc.
10. Hydrography; nautical charts; wind and current charts; sailing directions; light houses; the ocean world and its products; coral reefs; lake surveys; rivers. (See I v.)
11. Physical atlases and geographies. *Mountains.*
- c Topography and statistics.
 1. Handbooks of Travel, and Guide books. (See U d 8 Δ , I i 6, I s 6 \square .)
 2. British topography, statistics, censuses, etc. *Engl. districts. Tyne & Wear. 1364th volume 79.*
+. Ireland.
 Δ . Scotland. *Habrides, Orkney, Shetland, & Orkney 4.*
 \square . Wales.
 3. British local histories, alphabetical, including Isle of Man.
+. London and the river Thames. (See I t 7.)



4. British county histories and guide books, arranged alphabetically. Isle of Wight.

+ . The Channel Islands.

5. American topography. *The South*

Note: For the county and local histories, etc., of the several States and Canada, see U y 8, and U y 9 +.

6. American statistics, censuses, etc. (See U y 7 vii.)

7. Directories, arranged alphabetically by localities.

d Voyages and travels. Treatises on travelling.

1. Histories and collections of voyages. Hakluyt Society.

2. Voyages and travels in various parts of the world. Overland route.

3. Round the world; South Seas; Polynesia; N. W. Passage; N. W. Coast of America.

+ . Arctic and Antarctic expeditions and treatises thereon.

4. Australia, New Zealand, Van Dieman's Land, New Guinea.

5. Shipwrecks and disasters at sea. Life boats.

6. Travels in various parts of Europe; the Mediterranean; Dalmatia and Montenegro; the Rhine, etc.

7. Travels in the North of Europe; Russia, Germany, Hungary, Holland, and Belgium. *Scandinavia.*

8. Travels in Italy, France, Spain, Portugal, Switzerland, etc.

+ . Madeira, the Azores, and the Canaries.

△. Paris, including Guide books and histories.

9. Travels in Great Britain and Ireland.

10. Travels in Turkey, Greece, the Levant, the Crimea, Syria, Palestine, and Arabia. *Mesopotamia*

+ . The Holy Land, Moab, the Dead Sea, etc., including their history and geography.

△. Jerusalem.

11. Travels in Persia, China, Hindustan, the East Indies, etc.

+ . Siberia and Kamtchatka. (See U q 2.)

△. Central Asia, Tibet, Tartary, Kashmir, etc. (See U x 3.) *Belkora*

□. Caucasus, Georgia, Armenia, the Caspian.

12. Travels in Africa.

+ . Egypt, the Nile, Abyssinia, Ethiopia, Nubia. (See U x 4.)

△. South Africa. (See U x 11.)

□. Central Africa. *The Congo.*

IV. St. Helena.

V. North Africa. (See U x 9, U x 12.)

VI. West Coast. (See I i 4 +, U x 10.)

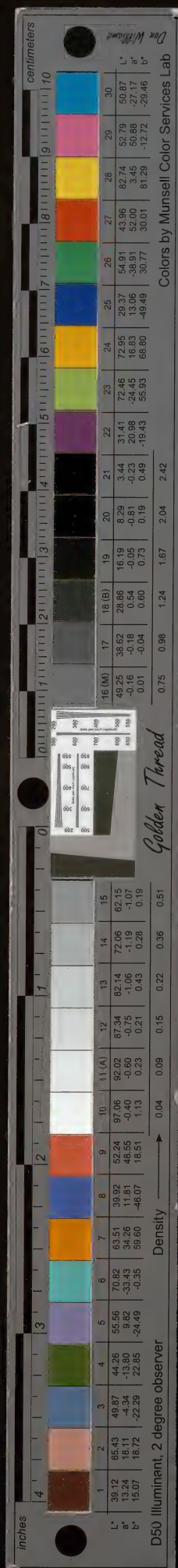
VII. East Africa. (See U x 3 □.)

13. Travels in America and voyages thereto.

+ . South America.

△. Central America and Colombia. The West Indies.

- e General history. Chronology. (See I p 2.) Ancient history.
1. Historical dictionaries: dates.
- f Antiquities: archaeology. (See I t 7.)
1. Prehistoric; fossil man; antiquity of man; the stone age; lake dwellings.
* Atlantis. (See I m.)
 2. Chaldea, Babylonia, Assyria, Nineveh. *Persia (ancient)*
 3. Hindustan, Afghanistan, etc.
 4. Egypt and Abyssinia. The Pyramids. Hieroglyphics. Mythology.
(See U x 4.) *hist of Ancient Egypt.*
 5. Etruria.
 6. Greece and Rome: Asia Minor, Ephesus, Palmyra, Baalbec. (See U m,
and U u 2.) *Empire of the Hittites. Classical hist.*
+. Herculeum and Pompeii.
△. The catacombs.
□. The city of Rome; its antiquities and topography.
 7. Northern Europe. Druidical remains. British barrows.
 8. America. (See U y 1.)
 9. Customs and costumes, dress, fashions, popular antiquities, ceremonies,
pageants, processions, funeral rites, sepulchres.
- g Numismatics; medals; ancient coins.
- h Chivalry, heraldry, peerage, genealogy, flags, etc. (See I g 3, and U o 1.)
1. Heraldry and heraldic mottoes.
+. Continental Europe.
 2. Royal and noble Houses, Clans, Peerages, Family histories, arranged
alphabetically, and followed by works on Names of persons and places.
+. American.
 3. Orders of Knighthood.
+. St. John and History of Malta.
△. Cincinnati. *□, Sons of the Revolution*
 4. Duelling.
- i Secret Societies, Masonry, Antimasonry, the Rosicrucians, etc. (See A q 1, I e.)
- k Gipsies.
- l History of Greece.
1. Modern Greece.
- m History of Rome.
1. Julius Cæsar, the Emperors and Empresses. (See U s 2.)
 2. Byzantine empire. (See U x 1.)
- n Historical Extracts and Miscellanies, etc.
- o History of Europe. Modern history.
1. Middle ages and Renaissance; Feudalism. (See U h.)
 2. Crusades.
 3. European Colonies. (See U p 10.) *Found in Turkey, Asia Minor*
 4. The Celts. (See I m 2.) *Britons*



- p British history. *Ancient Britain.*
1. England.
 - + . Anglo-Saxons.
 - △. The Rebellions of 1715 and 1745. The Pretenders and Non-jurors.
 2. Scotland.
 - + . Antiquities.
 - △. Mary Queen of Scots.
 3. Wales.
 - + . Welsh Bards.
 4. Ireland.
 - + . Irish Bards.
 5. Government publications; State papers; Parliamentary Blue Books and debates. *Civil service examinations.*
 - + . The Exchequer, National Debt, Customs.
 - △. Publications of the Record Comⁿ and of the Master of the Rolls.
 6. British politics, arranged chronologically. *Political ballads.*
 - + . Junius. *Treatises on Taxation.*
 7. Particular reigns; Wives of British sovereigns; Cromwell. (See U z note.)
 8. Naval and military history of Great Britain. Particular Regiments. Lives of Admirals. Army and navy lists. United Service Journals, etc. (See I v 1, I w 1.)
 9. Collected lives of British statesmen, regicides, etc.
 10. British Colonies and Empire. (See U o 3.)
- q History of Russia and Poland. (See U r 2.)
1. Crimean and other wars with Turkey. (See U x 1.)
 2. Russia in Asia. (See U d 11 +.) *Boikhanov (U x 3)*
 3. Particular reigns.
 4. Poland.
- r History of Denmark, Sweden and Norway; Scandinavia; the Northmen and the Normans. Sagas. (See U d 7, U f 7.)
1. Iceland.
 2. Lapland and Finland. (See U q.) *Kalevala.*
- s History of Germany.
1. Austria, Hungary, Transylvania, Servia, etc. (See U x 1.) *Bachman*
 2. Holy Roman Empire, Charlemagne, Charles V., etc. *Creighton*
 3. Prussia and the New German Empire. *Lorenz*
- t History of Holland and Belgium.
- u History of Italy and Switzerland.
1. Switzerland and the Tyrol. (See U d 8.)
 2. Papal and modern Rome and the States of the Church. (See A o 2, A o 13, U f 6 □.)
 3. Venice.
 4. Naples: the Two Sicilies.
 5. Italian Republics: Monaco.

v History of France. (See A o 2 Δ .)

1. Particular reigns, arranged chronologically, including *Mémoires pour servir*.

+ . Joan of Arc.

2. Revolution of 1789. *The Directory The Guillotine*

+ . The Dauphin.

3. Consulate and Empire. All lives, etc., of Napoleon I.: also his works.

4. Restoration, Revolution of 1830, Louis Phillippe.

5. Revolution of 1848.

6. Second Empire. Lives and works of Napoleon III.

7. Franco-German war.

8. Republic. The Communists.

9.

10. Corsica.

w History of Spain and Portugal. (See U x 6 +.) *Peninsular War (1808, 1809)*

x Asiatic and African history. The Mongols. Asiatic Societies, etc.

1. History of the Ottoman Empire and its possessions. The Eastern question. (See U q 1, U s 1.) *Bulgaria (U s 1) Herzegovina*

2. China and Japan: Coolies. Chinese Emigration. (See A q 6.)

3. Hindustan and the East Indies; Siam, Nepaul, Afghanistan, etc. *Bokhara (U q 3)*

+ . The Hon. E. India Co. and the British rule in India.

Δ . Dutch East Indies. Borneo. Java.

\square . Mauritius and Madagascar.

IV. The Sepoy war.

4. Egypt and Abyssinia. (See U d 12 +, and U f 4.) *Nubia etc*

+ . Suez Canal.

5. Australasia, Melanésie, Oceanica, Polynesia, Australia, New Zealand. *Hawaii Islands*

6. Arabia, the Saracens and the Moors. (See U x 9.)

+ . Arabs in Spain and their antiquities. (See U w.)

7. Phenecia. (See U x 12.)

8. Persia.

9. Algiers and Algérie. Tunis, Tripoli, the Barbary States, Morocco, etc. (See U x 6.)

10. West coast of Africa: Dahomey. (See I i 4 +, U d 12 vi.)

11. South Africa. The Cape. (See U d 12 Δ .)

12. Carthage. (See U x 7.)

13. Tartary.

y History of America.

1. The Aborigines. U. S. Reports on Indian Affairs, etc. (See U f 8.) *Indian Affairs*

2. History of the U. States. Colonial history.

+ . Mississippi Valley and the Far West.

Δ . Pacific Slope.

3. Revolution.

+ . American Loyalists.



4. Second war with Great Britain.
5. Secession and the civil war: the Sanitary Commission: U. S. and State Adj.-General's Reports (1861 to 1868): Particular regiments: Rolls of Honor: the Freedmen: Reconstruction: the Alabama question: etc. (See U b 6 +.) *Collected war poems.*
 - + . Confederate States of America.
6. Local and occasional politics, etc., of the U. S., arranged chronologically. Pamphlets relating to American affairs. *Hist. of parties & elections.*
 - + . The Federalist.
7. U. S. Government. State Papers, Public Documents, Congressional Debates and Directories, etc. *Civil service.*
 - + . Blue Books, Registers of U. S. officers, Army and Navy lists, West Point Registers, etc.
 - △. The Treasury and the Tariff.
 - . War Department. (See U b 6 +.) *Armies.*
 - IV. State " *consular reports.*
 - V. Navy " Navy regulations.
 - VI. Interior "
 - VII. P. Office Department. (See I i 3 +.)
- TX Supreme* VIII. District of Columbia: Washington City.
8. Particular States and Territories (Except Utah, A o 9), arranged alphabetically. (See U b note.) *D. C.*

Note: Under the history of each State are included, as a rule, its public documents: (See Ef 2, Ih 2, Il 3, Uy 5); also local histories, gazetteers, etc. (See U b 8, U c 7.)

 - 9. British America and the W. Indies.
 - + . Nouvelle France: Canada. *War of 1755. Parkman*
 - △. Acadie: Nova Scotia, Newfoundland, New Brunswick, etc.
 - . Jamaica.
 - IV. St. Domingo: Hayti.
 - V. Barbadoes.
 - VI. Cuba, Porto Rico, etc.
 - VII. Bahamas and Bermudas.
 - VIII. Hudson's Bay Territory, Manitoba, Victoria, etc.
 - IX. Danish West Indies.
 - 10. Spanish America, Mexico, and Central America.
 - + . The war between the U. S. and Mexico.
 - 11. South America.
 - + . Peru.
 - △. Brazil, La Plata, Paraguay, etc.
 - . Demarara and Guiana.
 - IV. Chili and Patagonia.
 - 12. Greenland and Labrador.
 - 13. Buccaneers.
 - 14. Naval and military history of U. S., including periodicals.

Note : Lives of reigning Sovereigns are classed U p, U q, U r, etc.

- $\frac{1}{2}$. American.

△. Artists ; painters, engravers, musicians, architects, players.

□. Judges, chancellors, lawyers.

2. Biography in the French language. (See U v 1.)
3. Portraits and treatises thereon, etc. (See I d and U g.)
4. Epitaphs.
5. Autographs.

+ : American.

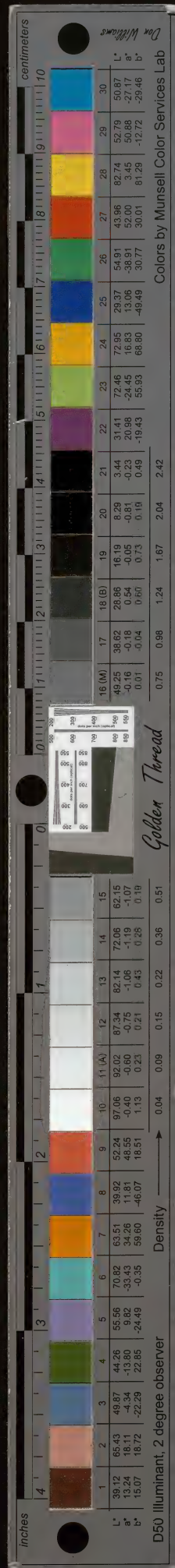
Note: Books, letters, etc., relegated to the Department of Manuscripts, will have a distinguishing mark (MS.) in the card catalogue, but will be classified precisely as if they were in print; autographs which have a value chiefly as illustrating the writer's life and character being marked U25, or U25+. The cards used for the Department of Manuscripts should be of a different color from the rest.



CLASS Y. BIBLIOGRAPHY.

- a General and miscellaneous catalogues and treatises. Periodicals. Best reading.
- b Special catalogues and treatises.
 - 1. Americana.
 - 2. Pseudonyms and autonyms. *Anonymous.*
- c Sale catalogues, Publishers' Circulars and Trade Lists.
- d Catalogues and descriptions of private libraries.
- e Catalogues of public libraries.
- f Art of cataloguing, classification of knowledge: Library economy, histories, associations, periodicals, etc. *Reports.*
- g Arts of writing, illuminating, printing, and book binding. Manufacture of paper and ink.
 - 1. Playing cards and block books, with fac-similes thereof.
 - 2. Exemplaria Typographica: Aldus, Baskerville, Strawberry Hill, Saur, Jansen, Ephrata, etc. Printing for the blind.
 - 3. Curious bindings.
 - 4. Penmanship.
 - 5. Philately. Catalogues of postage and excise stamps.
- h Stenography, Phonetic writing and printing, Steganography, etc.
- i Book rarities, incunabula, book plates and treatises thereon.
 - 1. Rarissima necnon pretiosa.
 - 2. Palæographia: Illuminated MSS. and Fac-similes. Diplomatics.
 - 3. Incunabula, and curious books of the 16th century.
 - 4. Ex-libris and treatises on book plates.
- Authors' Lives* k History and philosophy of literature. *Foreign classics for English readers.*
 - 1. Greek and Latin. *Ancient classics for English readers.*
 - 2. English. *Calamities of authors, etc. Periodicals.*
 - + American. (See Y b 1.)
 - 3. French.
 - 4. German, Dutch, and Scandinavian.
 - 5. Italian.
 - 6. Other. (See A n.)

INDEX.



NOTE.

For the convenience of Librarians who use Mr. Dui's system of classification, his numbers are appended in the OUTER COLUMN of this Index.

The letter S means *see the subject*.

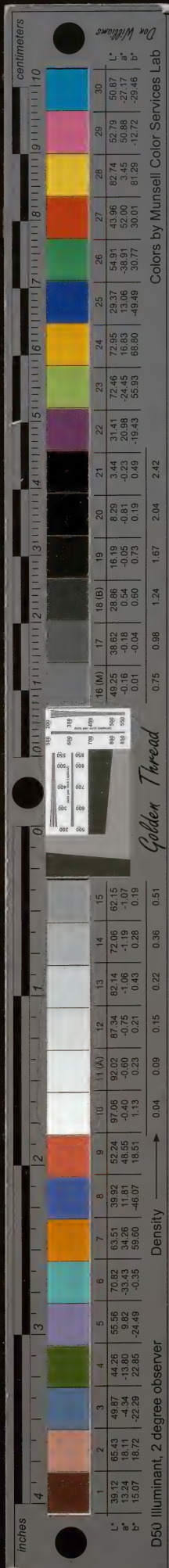
When a reference is made to two or more subdivisions, they should all be referred to before deciding under which head to classify a particular book.

ALPHABETICAL INDEX.

"A place for everything, and everything in its place."

Abolition	Ii 4, Uy 5	326	Africa—		
Aborigines of America	O a 2, Uy 1	970	ecclesiastical history	A o	276
Abortion	In 4	618	geography	U b, U b 4	916
Abridging, art of	O b 2	815	geology	I l 2	556
Abyssinia	U f 4, U d 12 +	963	history	U x	960
" language	O a 2	493	statistics	U c	316
Academies	I h 2	378	travels	U d 12	916
" of science	I y	506	Central	U d 12 □	916, 966
Acadie	U y 9 △	971	East	U d 12 vii	916, 960
Accounts	I u 2	657	North	U x 9, U d 12 v	
Acoustics	I r	534			916, 961
Acrostics	O m	819, 829, 839, etc.	South	U d 12 △	916, 968
Acting	O e	792	West Coast	U d 12 vi, U x 10	
Actors, lives of	U z 1 △	927			916, 966
Acts and Resolves	E f	328	Agnosticism	I i 4 +	325, 960
Acts of the Apostles	A c 5, A e	226	African colonization	I u 11	631
Addresses	O c	815, 825, 835, etc.	Agricultural chemistry	I u 11 △	630
Adjutant-Generals' reports	U y 5, U y 7 □,		Agricultural reports	I u 11	630
	U y 8	355	Agriculture	I u 11 A	630
Administration	I i, U y 7	350	Air "Department"	I k 3, I k 4	533
Administrative law	E f	342	Alabama	U y 8	976
Admirals' lives	U p 8	923	Alabama question	U y 5 341, 973, 942	
Admiralty Law	E b	346	Alaska	U y 8	977
Adultery	E i, I g 2	176, 345	Albania	U d 10, U x 1	949
Advent, second	A l	236	Albertypes	I s 5	774
Advertising	I i 3, O p 1	659	Albigenses	A o 11, U u	272, 944
Aerolites	I k 3	551	Alchemy	I e 1	540
Aeronautics	I k 3 +	533	Alcoholic liquors	I g 5, I n 2 +	178, 615, 663
Æsthetics	I s	701	Ales	I u 10 +	663
Æthiopia	U d 12 +	966	Alexandrian philosophy	I a 1	180
Affections	I c	157	Algæ	I l 5	582
Afghanistan	U f 3, U x 3, U d		Algebra	I o 1	512
	I i △	958	Algeria and Algiers	U x 9, U d 12 v	965
Africa—botany	I l 1, I l 5	586	Aliens	E b	343
customs and costumes	U f 9	396	Allegories	O f	819, 829, 839, etc.
description	U d 12	916	Almanacs	I p 1	528
			" statistical	I p 1, O o	313

(33)

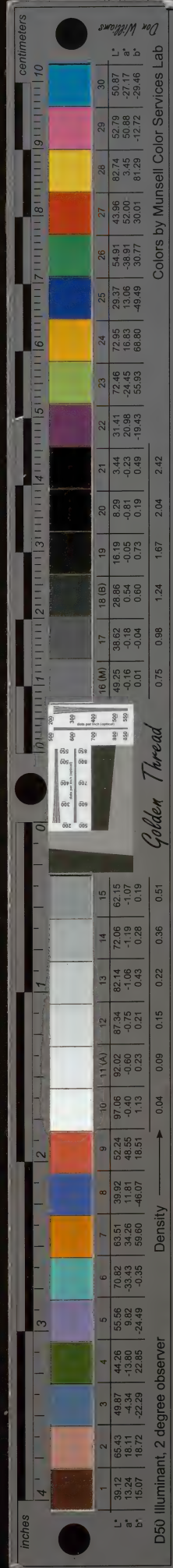


Almshouses	Ii 7	361	Anatomy, art	Is 9	743
Alphabets	O a	411, 421, 431, etc.	“ comparative	In i	591
“ ornamental	Y g	745-748	“ human	In i	611
Ambassadors	E b	341	Ancient architecture	It, It 7, U f	722
Ambrotype	Is 5	772	“ customs, costumes	U f 9	391
America	U d 13, U y	917, 918, 970, 980	“ design	Is 10	746
America Central	U d 13 Δ, U y 10	917, 979	“ geography	U b, U b i +	912
America North—	U d 13, U y	970	“ history	U e	930
botany	Il i, Il 5	587	“ law	E d	340
customs and costumes	U f 9	397	“ philosophies	I a, I a i	180
description	U c 5, U d 13, U y	917	“ sculpture	Is 4, Is 10	732
ecclesiastical history	A o	277	Anecdotes, miscellaneous	O g	829
geography	U b, U b 5, U b 6	917	“ religious	O g, <i>Am</i>	249
geology	Il 3	557	“ sporting	I x i +	796
history	U y	970	Aneurism	In 3, In 4	617
statistics	U c 6	317	Angels	Al, I e 3, 4	235
travels	U d 13	917	Anglican church	A o 3	283
America South—	U d 13 +, U y 11	980	Angling	I x i	799
botany	Il i, Il 5	588	Anglo-Saxon history	U p i +	942
customs and costumes	U f 9	398	“ language	O a 2	429
description	U c 5, U d 13, U y 11	918	Animal magnetism	I e 4	134
ecclesiastical history	A o	278	“ kingdom	Il 6	590
geography	U b, U b i +	918	Animalculæ	Il 6, I r i	593
geology	Il 3	558	Animals, domestic	I u 13	636
history	U y 11	980	Annals, general	On l +	313
statistics	U c 6	318	“ special (see sub- ject).		
travels	U d 13 +	918	Annuities	I o 4	333
American antiquities	U f 8, U y i	571	Anonyms	Y b 2	14
biographical dictionaries	U z i +	920	Antarctic regions	U d 3 +	999
languages	O a 2, U y i	499	“ “ travels	U d 3 +	919
painting	Is 2, Is 10	756	Anthropology	I m	130
philosophy	I a, I a i	191	Antilles	U y 9	979
revolution	U y 3	973	Anti-Masonry	U i	366
slavery	Il 4, U y 5, 6	326	Antinomianism	A o 16	234
Americana	Y b i	970, 980	Antiquities (see country or subject)	It 7, U f	
Americanisms	O a 2	427	“ Biblical	A d	220, 933
Amherst College	I h 2	378	“ classical	U f 6	937, 938
Amputation	In 4	617	Antiquity of man	I m, U f i	571
Amusements	I x	175, 790	Aphorisms	O g	819, 829, 839, etc.
Ana	O g i	819, 829, 839, etc.	Apocalypse	A c 5, A e	228
Anæsthetics	In 3	615, 617, 618	Apocrypha	A e 4	229
Anagrams	O g	14	Apologetics	A f	239
Analysis, chemical	} Ik 4	543	Apoplexy	In 5	616
“ qualitative		544	Apostles	A d	922
“ quantitative		545	Apostolic church	A o	274-276
Analytical geometry	I o 2	516	“ succession	Al	262
			Apothegms	O g	819, 829, 839, etc.
			Apparitions	I e 3, I e 4	133

ALPHABETICAL INDEX.

35

Apples	Iu 11 +	634	Artillery	Iw	358
Aquariums	Il 6	590	Artists' lives	Uz 1 Δ	927
Aquatint	Is 2	766	Arts and trades	Iu	600
Aqueducts	Ii 5	628	Arts, fine	Is	700
Arabia, ancient history	Ux 6	939	“ “ biography of	Is 10, Uz 1 Δ	927
“ modern	Ud 10, Ux 6	953	“ useful	Iu	600
Arabic language	Oa 2	493	“ “ biography of	Uz 1	926
“ philosophy	Ia 1	197	Ashantee	Ud 12 vi	
Arabs in Spain	Ux 6 +	946	“ “	Ux 10	967
Arboriculture	Il 5 + Iu 12	715	“ geography	Ub, Ub 4	916
Arbors	It 6, 7, Iu 12	717	Asia—	Ux	950
Archæology	Uf	571	botany	Il 1, Il 5	585
Archæology, prehistoric	Uf 1	571	customs and costumes	Uf 9	395
Archery	Ix 1	799	ecclesiastical history	Ao 1	275
Arches	It 7	721	geography	Ub, Ub 3	915
Archipelago, East Indian	Ud 11, Ux 3	915	geology	Il 2, Il 3	555
“ Greek	Ud 10	914	history	Ux	950
Architects, lives	Uz 1 Δ	927	statistics	Uc	315
Architectural drawing	Is 1	744	travels	Ud 11	915
Architecture	It	720	Asia Minor	Ud 10, Uf 6,	
“ naval	Iv	699	“ “	Ux 1	956
Arctic regions	Ud 3 +	998	Asiatic languages	Oa 2	490
“ “ travels	“	919	“ societies	Ux 915, 950,	395
Argentine republic	Uy 11 Δ	982	Assassination	Eh	345
Arianism	Ao 8 + 281, 232		Assault and battery	Eh	345
Aristocracy	Ii	322	Assaying	Il 4,	668
Aristotelian philosophy	Ia, Ia 1	185	Assent	If	163
Arithmetic	Io 1	511	Associations	Ao 15, Ii 5 +,	
Arizona	Uy 8	977	“ “	Ii 7, Iy	360
Arkansas	Uy 8	976	“ business	Ii 3 Δ	367
Armenia	Ud 11 □	956	“ charitable	Ii 7	361
Armenian Church	Ao 1	281	“ musical	Is 7	789
Armies	En, Iw, Up 8,		“ religious	Ao 15	362
“ “	Uy 7 □	355	Assurance	Io 4	368
Arminianism	Ao, Ao 7 287, 234		Assyria	Uf 2	935
Armor	Iw 1, Uf 9, Uh	355	Assyrian language	Oa 2	493
Army, British	Up 8	355	Asthma	In 5	616
“ U. S.	Uy 3, 4, 5, 7 □,		Astrology	Ie 2	133
“ “	10 +, 14.	355	Astronomical maps	Ip	524
Army regulations	En	355	“ observations	Ip	525
“ lists	Up 8, Uy 7 +	355	Astronomy	Ip	520
Art	Is	600, 700	Asylums, blind	Ih 3, Ii 7	361
“ anatomy	Is 9	743	“ deaf and dumb	Ih 3, Ii 7	361
“ biography	Uz 1 Δ	927	“ for insane	In 8	361
“ Christian	Is 8	709	“ orphan	Ii 7	361
“ decorative	It 6	745-748	Atheism	Ab	211
“ education	Is	707	Athletic sports	Ix 1	796
“ history of	Is 10	709	Atlantic ocean	Ub 10	913
“ schools	Ih 2, Is	753-756	Atlantis	Uf 1	551, 912
Artesian wells	Ii 5	628	Atlases	Ub 1 to Ub 9	910
Articulates, paleontology	Il 2	565	Atmosphere	Ik 3	533
“ zoology	Il 6	595	Atonement	Al	234

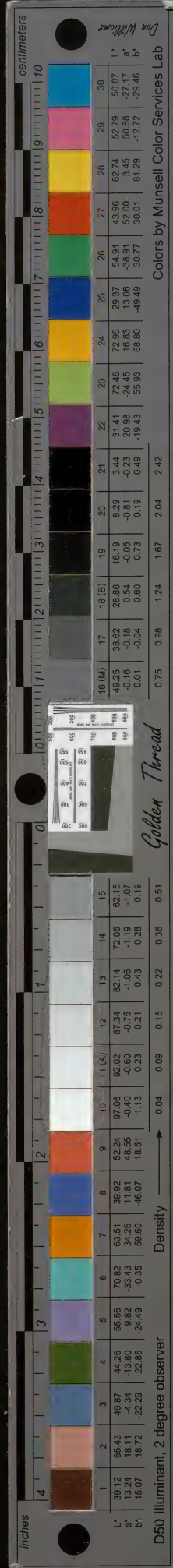


Attributes of God	Ab	231	Bells	It 1, Iu 4	671
Auctions	Ii 3	381	Beloochistan	Ud 11 Δ	915
Aurora	Ik 3	537, 551	Benevolent societies	Ii 7, It 1	361
Australasia	U b 9, U x 5,	993	Bermudas	U y 9 vii	971
Australia	U d 3, 4	994	Best reading	Ya	017
Austria	Us 1	943	Bhagvat Gita	A q 4	894
Authority	Ig, Ii	171	Bible	A c	220
Authors' lives	U z 1, Y k	928	" aids to study	Ad	220
Autobiography	U z	920, 929	" antiquities	Ad	220, 933
Autographs	U z 5	021	" commentaries	A e	220
Autonyms	Y b	041	" concordances	Ad	220
Ava	U d 11,		" dictionaries, etc.	Ad	220, 203
	U x 3	954, 663	" in schools	Ih 2	377
Azores	U d 8 +	946	" inspiration	A f 3	238
Baalbec	U f 6	93	" societies	A o 15	362
Babylon	U f 2	935	Biblical criticism	A e	220
Backgammon	I x 2	795	Bibliographies	Y a, b, c, d, e	11
Baconian philosophy	I a, I a 1	192	Bibliography	Y	10
Bahamas	U y 9 vii	979	Billiards	I x 2	795
Ball playing	I x 1	797	Bimetalism	I i 2	332
Ballads	Od 2 +	811, 821, 831, 841, etc.	Bindings, curious	Y g 3	025, 912
			Biography	U z	920
Ballooning	Ik 3 +	533	" actors	U z 1 Δ	927
Bampton lectures	A f	239	" American	U z 1 +	920
Banditti	Un, U z 1	345, 366	" army and navy	U p 8, U y 14	923
Bank Note Engraving	Is 3	768	" artists	U z 1 Δ	927
Bankrupt laws	Is E e	343	" British	U z	920
Banks	I i 2	332	" Christian	A o 13, 14	922
Baptism	A o 6	264	" dictionaries	U z 1	920
Baptists	A o 6	286	" in French	U z 2	920-9
Bar (legal)	E a	340	" royal and noble	U h 2	923
Bar tending	I u 10 +	178	" statesmen	U p 9, U z 1	923
Barbadoes	U y 9 v	918, 989	Biology	I c, I l 7	570
Barbary States	U x 9	961	Birds	I l 6 +	598
Barometer	Ik 3	533, 551	" palæontology	I l 2	568
Barrows, British	U f 7	571	Birth	I n 4, U h 2	618
Bas-reliefs	Is 4	731	Births	U c	312
Base ball	I x 1	797	Blacksmithing	I u 3	682
Basque language	O a 2	499	Blasphemy	E h	233
" provinces	U w	946	Bleaching	I u 5	667
Baths	I l 2 +, I n 7	613	Blind asylums	I i 7	361
Bavaria	U s	943	" education of	I h 3	361
Beauties (selections)	Ob 1, Od 2 iv v	802	" printing for	I h 3, Y g 2	361
Beauty	Is - I n 7, Is 1, O b	701	Blindness	I n 5	616
Beer	I u 10 +	663	Block books	Y g 1	22
Bees	I u 14	638	Blowpipe	Ik 4	543
Beetles	I l 6	595	Blue books, parliamentary	U p 5	328
Beet sugar	I u 11	664	" " United States	U y 7 +	328
Beets	I u 11	635	Blue laws	E f 2, U y 8	343
Belgium	U d 7, U t	949	Board of Health	I n 7	614
Belles-lettres	O	800	" of Trade	I i 3 Δ	380
Bell-ringing	It 1, I u 10	785	Boating	I v, I x 1, I v 3	797

ALPHABETICAL INDEX.

37

Boats	Iv	797, 699	British topographies	Uc 2	914
Body and mind	In 8	130	Britons	Im 2, Up	942, 941
Bohemia	Us 1	943	Bronchitis	In 5	616
Bohlen lectures	Af	239	Bronzes	Is 4	738
Bokhara	Ug 2 — Ud 11 Δ, Ux 3	959	Buccaneers	Uy 13	345, 366
Bolivia	Uy 11	984	Buddhism	Aq 4	294
Bonaparte	Uv 3	923	Buenos Ayres	Uy 11 Δ	982
Bonds and stocks	Ii 2	333	Building	It	690
Bones	In 1	611	Bull fights	Ix 1	796
Book binding	Yg, Yg 3	10, 25, 686	Burial	Uf 9	390, 614, 719
“ collecting	Ya	10	Burmah	Ud 11, Ux 3	954
“ keeping	Iu 2	657	Business	Ii 3	650, 380
“ plates	Yi 4	027	Business ethics	Ee, Ig 4	174
“ rarities	Yi	20	“ manuals	Ii 3	658
Book of Common Prayer	Ag 2	244	Butter	Iu 13	637
Books	Y	10, 20	Butterflies	Il 6	595
Books of prints	Is 6	769	Byzantine Empire	Um 2	949
Booksellers' catalogues	Yc	17, 18	Byzantium	Ub 1 +	914
Boot-making	Iu 8	685, 675	Cabinet making	Iu 7	684
Borneo	Ux 3 Δ	992	Cæsars	Um 1	937, 923
Botany	Il 5	580	Calabria	Uu 4	945
“ fossil	Il 2	561	Calculators	Ii 2, Io	511
“ medical	In 2	615	Calculus	Io 1	517
Boxing	Ix 1	796	Caledonia	Up 2 +	941
Boyle lectures	Af	239	Calendar	Ip 2	529
Brahmanism	Aq 4	294	California	Uy 8	977
Brain	In 1, In 8	131, 612	Calisthenics	In 7	613
Brandy	Iu 10 +	615, 663	Caloric	Iki	536
Brazil, history	Uy 11 Δ	981	Calvinism	Al, Ao 11 Δ	342
Bretons “ travels	Ud 13 +	918	Cambists	Ii 2	332
Breviaries	Ag 1	244, 282	Cambria	Up 3	942
Brewing	Iu 10 +	663	Cambridge University	Ih 2	378
Bric-a-brac	It 6 +	738	Cameos	It 6 +	636
Bricks	Iu 9	673	Campbellism	Ao 11	286
Bridge-building	Ii 5	624	Camping out	Uc 1	796
Brigands	Uz 1	345, 366	Canada	Uy 9 +	972
British America	Uy 9	971	Canal engineering	Ii 5	626
“ army	Up 8	355	“ Suez	Ux 4 +	626
“ colonies	Up 10	942	“ transit	Ii 5 +	386
“ Columbia	Uy 9 viii	972	Canary Isles	Ud 8 +	946
“ empire	Up 10	942	Cancer	In 5	616
“ Exchequer	Up 5 +	328	Cane sugar	Iu 11	633
“ government pub's	Up 5	328	Canon law	Ed	348
“ history	Up	942	Canon of Scripture	Ad 1	220
“ India	Ux 3 +	954	Caoutchouc	Iu 8	675
“ Museum	Iy 2	369	Cape of Good Hope	Ux 11	968
“ navy	Up 8	359	Capital and labor	Ii 1	331
“ poets	Od 2 iv	821	Capital punishment	Eh 1	345
“ politics	Up 6	323, 942	Card-building	Ii 6	699
“ sovereigns	Up 7	923, 942	Cardinals	Ao 13	282, 922
“ statesmen	Up 9	923	Card-playing	Ix 2	795
			Caribbee Islands	Ud 13 Δ, Uy 9	989

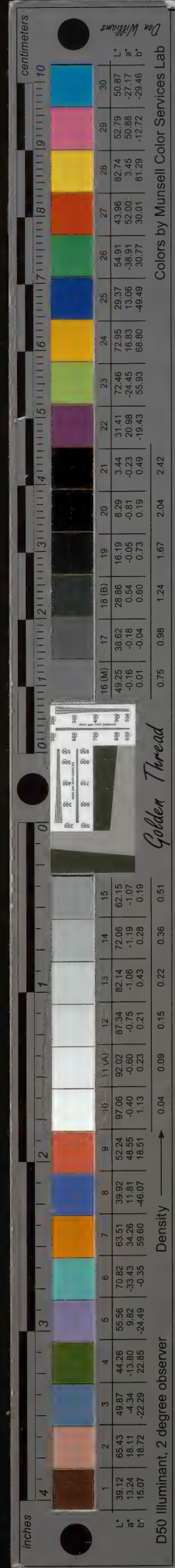


Caricatures	Is 6 Δ	741	Chances	Io 4	519
Carpentry	It 4	694	Change of air	In 3 Δ	613
Carpets	Iu 5	677, 645	Charades	Ix 2	795
Carriage making	Iu 7	684	Charges, Episcopal	Am	257
Carthage	Ux 12	939	Charitable associations	Ii 7	361
Carving	Iu 15	643	Charlemagne	Us 2	944, 923
“ and chasing	Is 4	736	Charles V.	Us 2	946, 943, 949, 923
Cashmere	Ud 11 Δ	954	Charts	Ub 7, Ub 10	910
Caspian	Ud 11 \square	914, 947	Charts, history	Ua	908
Castile	Uw	946	Chasing	Is 4	736
Casts	Is 4	730	Checkers	Ix 2	795
Casuistry	Ig 4	171	Cheese	Iu 13	637
Catacombs	Uf 6 Δ	319, 719	Chefs d'œuvre	Iu 16, Is 6, Od 2 iv	S
Catalogues—Authors	Ya, b, c, d	18	Chemical analysis	Ik 4	543
“ book sales	Ye	12-18	“ technology	Ik 5	660
“ Books	Ya, b, c, d	12-18	Chemicals—manufacture	Ik 5, Iu 5	661
“ Libraries	Yd, Ye	12-18	Chemistry	Ik 4	540
“ Subjects	Ya, b, c, d	17	“ agricultural	Iu 11	631
Cataloguing	Yf	019	“ applied to the arts	Ik 5	660
Catarrh	In 5	616	Chess	Ix 2 +	794
Catechisms	Ag	241	Childbirth	In 4	618
Cathedrals	It 1, It 7	726	Children, diseases of	In 5	616
Catholic and Protestant	Al 1	282	Chili	Uy 11 iv	983
Catholic Church	Ao 2	282	Chimneys	It 2	693
Cattle	Iu 13	636	China, ancient	Ux 2	931
Caucasus	Ud 11 \square	914, 447	“ modern	Ux 2, Ud 11	951
Caucuses	Uy 6	324	Chinese history	Ux 2	951
Cavalry	Iw	357	“ language	Oa 2	491
Cave temples	Uf 3	551	“ literature	Aq 6	891
Caves	Il 2, Uf 1	551	“ religion	Aq 6	299
Celibacy	Al 1, Ig 2	136, 176	Chivalry	Uh	322
Celtic language	Oa 2	496	Chloroform	In 3	615, 617, 618
“ literature	Up 3 +, Up 4 +, Yk	896	Cholera	In 5	616
Celts	Im 2, Uo 4	936	Christ	Ad, Al	232
Cements	It 3	693	Christian antiquities	Ao	270
Cemeteries	Iu 12, Uf 9	719	“ art	Is 8	709
Censuses	Uc, Uc 2, Uc 6	310	“ associations	Ao 15	362
Centennial Exhibition	Iu 16	606	“ Church	Ao	261, 280
Central Africa	Ud 12 \square	966	“ doctrines	Al, Ao 16	230
“ America	Ud 13 Δ , Uy 10	979	“ ethics	Ig 4	170
“ Asia	Ud 11 Δ , Ux 3	915, 958	“ fathers	Ak	270
Ceramic art	Iu 9	673, 738	“ iconography	Is 8	732
Ceremonies	Uf 9	390	“ institutions	Ao 15	260
“ religious	Ag, Aq 1	244	“ sects	Ao 11	280
Cetacea	Il 6	599	Christianity, evidences	Af	239
Ceylon	Ud 11, Ux 3	954	“ history	Ao	270-289
Chaldea	Uf 2	935	Christians, biography	Ao 14	922
Chaldee language	Oa 2	493	Christmas customs	Uf 9	390
Chamber of Commerce	Ii 3 Δ	380	Christology	Ao 16	232
Chancery law	Ee	344			

ALPHABETICAL INDEX.

39

Chromolithography	Is 3	764	Cock fighting	I x 1	796
Chromatography	Is 2	752	Co-education	I h	376
Chronologies	U e	902	Coffee	I u 11, 15,	
Chronology	I p 2	529		I n 2 +	641, 633
Church	A o	261	Coinage	I i 2	332
“ architecture	I t 1	726	Coins	I i 2, U g	737
“ and schools	I h 2	377	Coleoptera	I l 6	595
“ and state	A l, A o 3	261, 172,	Collected biography	A o 14, U z 1	920 S
		329	“ travels	U d 1	910 S
“ fathers	A k	270	“ works	O i	S
“ history	A o	27c-289	Collections, art	I s 6	708
“ music	I s 7	783	drawing and design	I s 6	749
“ needlework	I s 8	745	engraving	I s 6	769
“ of England	A o 3	283	painting	I s 6	759
“ of Rome	A o 2	282	photography	I s 5	779
“ polity	A l	262	of poetry	O d 2 iv, 811, 821,	
“ primitive	A o	270		v	etc.
Cincinnati Society	U h 3	369	of useful knowledge	I b	602 S
Circassia	U d 11	947	sculpture	I s 4	739
Circumnavigations	U d 3	910	Collectors' manuals	I l, I s 10	579
Citizenship	E b	342	College songs	O d 2 +	784
City transit	I i 5, I i 6	388	Colleges	I h 2	378
Civil engineering	I i 5	620	Collieries	I l 4 +	628
“ law	E d	348	Colombia, S. A.	U d 13, U y 11	986
“ service organs	U p 5, U y 7	351	Colonial history U. S.	U y 2	973
“ “ reform	I i, U y 6	351	“ system	U p 10	325
“ trials	E k 2, 3	340	Colonies	U o 3, U p 10	325
“ war	U y 5	172, 976	Colonization	I i 3	325
Civilization—progress	I m 3	313	“ African	I i 4 +	960, 325
Clairvoyance	I e 4	134	Color	I r, I s 2	535
Clans	U h 2, U p 2 +	394, 941	Coloring	I t 6, I u 5	667
Classical antiquities	U f 6	937, 938	Colors, manufacturing	I u 5	661
“ education	I h	375	Colors, painting	I s 2	752
“ mythology	A q 2	292	Columns	I t 7	720, 730
Classics, Greek	O i 1 +	488, 880	Combustion	I k 1	541
“ Latin	O i 1 +	478, 870	Comedy	O e 812, 822, 832,	
Classification	Y f	112		etc.	
Clergy, lives of	A o 13, 14, U z	922	Comets	I p	523
Climate	I k 3	551	Comic journals	I s 6	818, 828
Climatology	I k 3	551, 536	“ works	O f 818, 828, 838,	
Clinics	I n 3	610		etc.	
Clock-making	I u 6	681	Commemorative sermons	A m, U z	259
Clothes-making	I u 17	687	Commentaries, Bible	A e	220
Clothing	I u 17, U f 9	646	“ law	E b, d, e, f	340
Clubs	U e 3 +, U f 9	369	Commerce	I i 3	380, 650
Coaching	I x 1	381, 798	“ history of	I i 3 +	380, 650
Coal	I l 4 +	549, 644	Commercial dictionaries	I i 3	380, 650
Coal oil	I l 2	549, 644, 665	“ law	E e 2	343
Coast survey	U b 7	622	“ periodicals	I i 3 +	380, 650
Coats of arms	U h 1	929	Common law	E e	343
Cochin China	U d 11, U x 3	951	Common schools	I h 2	372
			Communication	I i 5	380, 650



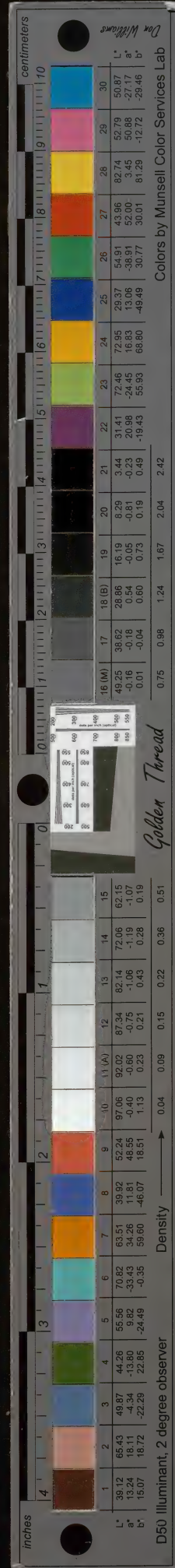
Communion	A g, A l	265	Continental travels	U d 6	914
Communism	I i 1	335	Contracts	E e	343
Communists, French	U v 8	335	Controversial divinity	A l	230
Companies	I i 2, 3, 4, 5, 6, 7	360 S	Conundrums	I x 2 819, 829, 839, etc.	
Comparative anatomy	I n 1	591	Convents	A o 15 +	362, 271
“ mythology	A q 1	291	Conversation	O b	177
“ philology	O a	410	Conversion	A l	233, 269, 241
Compass	I v	629, 538, 527	Conveyancing	E e 1	349
Compend—			Cookery	I u 15	641
history	U e	902	Coolies	U x 2	331, 395
fine arts	I s	702	Co-operation	I i 1	331
literature	Y k	802	Copper	I l 4, I u 4	671, 549
natural science	I k	502	Copper engraving	I s 3	762
philology	O a	402	Coptic language	O a 2	492
philosophy	I a 1	102	Copyright	E m	343
science	I k	502	Corals	I l 6, U b 10	593
sociology	I m 3	302	Corea	U d 11, U x	959
theology	A	202	Corn laws	I i 1, U p 6	347, 343
useful arts	I u	602	Cornices	I t 2	721
Composition	O b 2	815	Coroners	E e	343
“ musical	I s 7	781	Corporal punishment	E h	371
Comte's philosophy	I a	194, 145	Corporations	E e	360
Conchology	I l 6	594	“ charitable	I i 7	361
Concordances	O m 6	220	“ mining	I l 4 Δ	628, 343
Concordances of Bible	A d	220	“ railroad	I i 6	343, 385, 656
Confectionery	I u 15	642	Correction, houses of	E h	364
Confederate States	U y 5 +	973, 976	Correlation of forces	I k	530
Confessional	A l 1, I g 4	282	Correspondence	O h	816
Confessions	A o 16	S	“ Swedenborgian	I e	289
Confucianism	A q 6	299	Corsica	U v 10	944
Congregationalism	A o 5	285	Cosmetics	I u 17	646
Congress of Vienna	U v 3	923	Cosmogony	A q 1	113
Congressional debates	U y 7	328	Cosmology	I l	113
“ directories	U y 7	328	Cossacks	I m 2, U q	947
“ documents	U y 7	328	Costa Rica	U d 13 Δ, U y 10	979
Conic sections	I o 2	515	Costumes	U f 9	390
Connecticut	U y 8	974	Cottages	I t 2	728
Conscience	I g 4	170, 233	Cotton manufactures	I u 5	678
Conservatories, plants	I u 12	716, 635	“ planting	I u 11	633
Conservatories of music	S I f 7	789	“ trade	I i 3 +	381, 382
Constantinople	U c 1, U m 2, U x 1	914, 994	Councils, ecclesiastical	A o 16	262, 270
Constitution, English	E f 3 +	323	“ municipal	U y 8	324
“ United States	E f 1	324	Counterfeiting	I i 2	345, 332, 737
Constitutional law	E f	342	County histories, American	U y 8	974-977
Construction, architectural	I t	721	“ “ British	U c 4	942
Consulate and Empire	U v 3	944	Courtesy	I g 3	177
Consuls	E b, U y 7 +	327	Courts martial	E n	347
Consumption	I n 5	616	Cousin's philosophy	I a	194
Contagion	I n 3	614	Covenanters	A o 4	274, 941
Continental heraldry	U h 1 +	929	Cows	I u 13	636, 637
			Cranberries	I u 11	634

Consular reports U y 7 IV.

ALPHABETICAL INDEX:

41

Craniology	Im 2 Δ	611, 571, 573	Deaf and dumb institutions	Ih 3, Ii 7	361
Crayon drawing	Is 1	741	Deafness	Ih 3, In 5	616
Creation	Af 1, I1	213	Death	Ie, In 1	612
Creeds	Ag	244, 280	“ and resurrection	Af 2, Al	236
Credit	Ii 2	334	“ penalty	Eh 1	345
Cremation	In 7, Uf 9	614, 390	Debates	Up 5, Uy 7, etc.	815
Crete	U1 1	949	Debating societies	Ih 4	374, 815
Cricket	Ix 1	796	Debt, public	Ii 2, Up 5 +, Uy 7 Δ	336
Crime	Eh	345	Decimal system	Io 1	511
Crimea	Ud 10	947	“ weights & measures	Ii 3	389
Crimean war	Uq 1	947	Declamation	Ob	815
Crimes and punishments	Eh	345	Decorative art	It 6	745-748
Criminal law	Eh	345	Deductive logic	If	162
“ trials	Ek	345	Deism	Ab	211
Criminals, juvenile	Eh	345	Delaware	Uy 8	975
“ collected lives	Uz 1	923	Delusions	Ie 3	133
Critical psychology	Ie	142	Democracy	Ii	324
Criticism	Ob $\frac{1}{2}$ (see Essays)		Demonology	Ie 3	133
“ biblical	Ae	220	Denmark	Ud 7, Ur	948
“ dramatic	Oe	792, 812	Denominations, Christian	Ao 11, Aq 1	280
Croatia	Us 1	943	Dentistry	In 4 +	617
Crocheting	Iu 17	793	Department of Interior	Uy 7 vi	353
Cromwell	Up 7	942, 923	“ Navy	Uy 7 v	359
Croquet	Ix 1	796	“ of State	Uy 7 iv	351, 327
Croup	In 5	616	“ Post-office	Uy 7 vii	383
Cruelty to animals	Ii 7 $\frac{1}{2}$ 94	364, 179	“ Treasury	Uy 7 Δ	352
“ to children	Ii 7 $\frac{1}{2}$ 94	364, 179	“ War	Uy 7 \square	355
Crusades	Uo 2	274, 940	Depravity	Al	233, 216
Crustacea	I1 6	595	Derangement, mental	In 8	132
Cryptogamia	I1 5	582	Descartes' philosophy	Ia, Ia 1	194
Crystallography	I1 4	458	Descriptive astronomy	Ip	523
Cuba	Uy 9 vi	979	“ geometry	Io 2	744
Cuneiform languages	Oa 2		Design, arts of	Is 1	740
Currency	Ii 2	332	“ ornamental	It 6	745-8
Currents	Ub 10	551	Despotism	Ii	321
Curvilinear motion	Iq	531	Detectives	Eh	354
Customs and duties	Ii 3 +, Up 5 +	337	Deuteronomy	Ac 3	222
“ “ manners	Uf 9	390	Development theory	I1 7	575
Cyclopædias, general	Ib	30	Devil	Al, Aq 5, Ie 3	235
Cypher writing	Yh	651	Devotional theology	Ah	240
Daguerreotype	Is 5	772	Dew	Ik 3	551
Dahomey	Ud 12 vi, Ux 10	916, 967	Dialectics	If	160
Dairy	Iu 13	637	Dialects—	Oa 2	S
Dalmatia	Ud 6	943	English	“	427
Dancing	Ix 2	793	French	“	447
Danish	Oa 2	498	German	“	437
Darwinism	I1 7	575	Greek	Oa 1	487
Dates	Ue 1	902	Italian	Oa 2	457
Dauphin	Uv 2 +	923, 944	Latin	Oa 1	477
Dead Sea	Ud 10 +	915	Spanish	Oa 2	467



Dialling	Iu 6	681	Doctrinal history	A o 16	273
Dialogues	Og	792	“ sermons	Am	253
Diamonds	It 6+	552	“ theology	Al	230
Diaries	Uz	920	Dogma	A o 16	230
Dictionaries—	S		Dogs	Il 6, Ix 1	599, 636
arts and sciences	Ib 503, 603, 703, 8		Domestic and for'n relat'ns	Up 5, Uy 7	327
<i>Classical</i> biographical <i>Uf 6</i>	Uz 1	920	“ animals	Iu 13	636
comparative	Oa	413	“ architecture	It 2	728
English	Oa 2	423	“ economy	Iu 17	640
fine art	Is	703	“ medicine	In 3	615
French	Oa 2	443	“ trade	Ii 1, Ii 3	381
German	“	433	“ worship	Ag	248
Greek	Oa 1	483	Dominoes	Ix 2	795
history	Ue 1	903	Drainage	Ii 5, In 7, It 5	
Italian	Oa 2	453	— <i>Agricultural</i> <i>Iu 11</i>	631, 614	
Latin	Oa 1	473	Drama, general treatises	Oe	812
literature	Ya	803	“ English	Oe 2	822
medical	In	610	“ French	Oe 3	842
natural science	Ik	503	“ German	Oe 4	832
philology	Oa	403	“ Greek	Oe 1	882
philosophy	Ia 1	103	“ Italian	Oe 5	852
science	Ib	503	“ Latin	Oe 1	872
sociology	Im 3	303	“ Parlor	Ix 2	792
Spanish	Oa 2	463	“ Spanish	Oe 6	862
theology	A	203	Dramatic amusements	Ix 2, Oe	792
useful arts	Iu	603	“ biography <i>Oe</i>	Uz 1 Δ	927
Didactic theology	Al	241	“ music	Is 7, Oe 7	782
Die-making	Iu 4	736	Draughts	Ix 2	795
Diet	In 7	613	Drawing	Is 1	740
Differential calculus	Io 1	517	Drawing-books	Is 1	741
Digestion	In 1	612	Dreams	Ie 4	135
Digests	Ef	343	Dress	Uf 9	646
Dining	Iu 15	643	“ making	Iu 17	646
Diphtheria	In 5	616	Drives	Iu 12	713
Diplomacy	Eb	327, 341	Driving	Ix 1	798
Diplomatics	Yi 2	10, 21	Drugs	In 2	615
Directories	Uc 7	910	Druids	Aq 3, Uf 7,	
Disasters at Sea	Ud 5	656	Uo 4	299	
Discipline, education	Ih	371	Duelling	Uh 4	177, 395, 392
Discourses	Am, Oe	252-9	Dutch East Indies	Ux 3 Δ	915, 959
Diseases	In 3, In 5	616	“ language	Oa 2	439
Disinfection	In 7	614	“ painting	Is 10	753
Dispensaries	Ii 7	615	“ poetry	Od 4	831
Dispensatories	In 2	615	“ Reformed Church	A o 11 Δ	289
Dissection	In 1	611	“ Republic	Ut	949
Dissenters	A o 5, 6, 7, etc.	289, 283	Duties	Ig	170
Distillation	Iu 10+	663	“ and customs	Ii 1, Ii 3	337
District of Columbia	Uy 7 viii	976	Dwarfs	Im	130
Divination	Ie	133	Dyeing	Iu 5	667
Diving and diving bells	Iv 2	627	Dynamical electricity	Ik 2	537
Divorce	El, Ig 2	343, 173	“ geology	Il 2	553

Dynamics	I k	531	Elective franchise	I i r, U y 6	324
Dysentery	I n 5	616	Electricity	I k i	537
Dyspepsia	I n 5	616	“ applied	I k 2	537
Ear diseases	I n 5	616	Electro-magnetism	I k i, 2	538
“ functions	I r	612	Eleemosynary institutions	A o i 5, I i 7	361
Early English Text Society	O m 2 +	820	Elementary education	I h i	372
Early Greek philosophy	I a i	182	Eleusinian mysteries	A q 2 +	391, 292
Earth	I l 2, U b	551	Elgin marbles	I y 2	733
“ figure of	I p	526	Elocution	O b	815
Earthquakes	I l 2	553	Eloquence	O b	815
Easter	A g	244	Emancipation	I i 4, U y 5	326
Eastern Churches	A o i	281	Embalming	I u 17, U f 4	390
“ empire	U m 2	949	Embargo	E b, U y 4	346, 341
“ question	U x i	949	Emblems	O g	219
“ States	U y 8	974	Embryology	I n i, I n 4	576
East India Company	U x 3 +	382	Emigration	I i 3, U p 10	325
East Indies	U d 11, U x 3	954	Emperors, Roman	U m i	923, 937
“ Dutch	U x 3 Δ	915, 959	Empirical psychology	I a i, I e	144
Eccentrics, lives of	U z i	920	Empresses, Roman	U m i	923, 937
Ecclesiastical art	I s 8		Enamel painting	I s 2	751
“ history	A o	270	Encaustic “	I t 6	751
“ law	E d	348	Encyclopædias, general	I b	30
“ polity	A l	262	Engineering	I i 5	620
“ trials	E k 4	348, 270	“ instruments	I o 3, I p	629
Echinoderms	I l 6	593	“ military	I w	623
Eclectic medicine	I n 3 □	616	“ mining	I l 4	628
“ philosophy	I a, I a i	199	“ railroad	I i 6	625
“ psychology	I a, I e	148	“ steam	I q	621
Eclipses	I p	523	“ topographical	I i 5	622
Economy, domestic	I u 17	640	England, geography	U e 2	914
“ political	I i i	330	“ history	U p i	942
<i>Ecuador</i> <i>Ag 3</i>	U d 13 +, U y 11	989	“ travels	U d 9	914
Education	I h	370	English army	I w i, U p 8	355, 942
“ element'y works	I h i	372	“ Church	A o 3	283
“ fine arts	I s	707	“ dialects	O a 2	427
“ history	I h 2	907	“ dictionaries	O a 2	423
“ medical	I n 9	610	“ drama	O e 2	822
“ military	I h 2, I w	355	“ etymology	O a 2	422
“ natural sciences	I k	507	“ government	E f 3 +, U p 5	323
“ philology	O a	407	“ grammar	O a 2	425
“ philosophy	I a i	107	“ language	O a 2	420
“ science	I h	507	“ literature	Y k 2	820
“ self	I h 4	374	“ navy	I v i, U p 8	359, 942
“ useful arts	I u	607	“ orthography	O a 2	421
Educational institutions	I h 2	378	“ painting	I s 2	756
“ reports	I h 2	379	“ philology	O a 2	420
Egypt, ancient	U f 4	932	“ philosophy	I a i	192
“ modern	U d 12 +, U x 4	962	“ poetry	O d 2, O d 2	
Egyptian language	U f 4	492	“ prosody	O a 2, O d 2	426
“ literature	U f 4, Y k 6	892	“ sculpture	I s 4	735
Election sermons	A m	256	“ synonyms	O a 2	424
Elections	U y 6	324	“ texts	O m 2 +	428

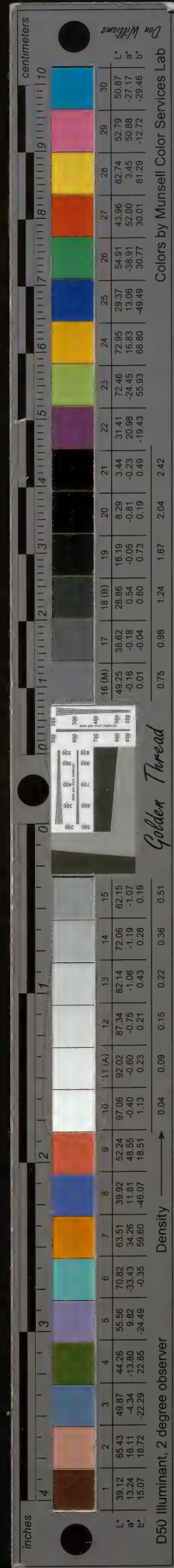


Engravers' lives	U z 1 Δ	927	Essays, theology	A l	204
Engraving	I s 3	760	“ useful arts	I u	604
Enigmas	I x 2, O m	819, 829, 839, etc.	Etching	I s 3	767
Entertaining collections	O f 2 +,	310, 829, 839, etc.	Eternal punishment	A l, I e	237
Entertainments	I u 15, I x 2	791	Etherization	I n 3	617
Enthusiasm	A o 7, I c	137	Ethics	I g	170
Entomology	I l 6	595	“ legal	E a	170, 340
Entozoa	I l 6	595	“ medical	I n 3 +	170, 610
Ephemerides	I p 1	528, 525	Ethiopia	U d 12 +	966
Ephesians	A c 6	956, 938	Ethnography	I m 2, U f 9, <i>sup 53</i>	390
Ephesus	U f 6	956, 938	Ethnology	I m 2	572
Epics	O d	811, 821, 831, etc.	Etiquette	I g 3	177
“ Greek	O d 1	883	Etruria	U f 5	937
“ Latin	O d 1	873	Etymologies, comparative	O a	412
Epicurean philosophy	I a 1	187	“ English	O a 2	422
Epidemics	I n 5	614	“ French	O a 2	442
Epigrams	O d, O d 1, O d 2,	819, 829, 939, etc.	“ German	O a 2	432
Episcopal Church	A o 3	283	“ Greek	O a 1	482
Epistles, Bible	A c 6	227	“ Italian	O a 2	452
Epistolary writers	O h	928	“ Latin	O a 1	472
Epistolography	O h 1	816, 826, etc.	“ Spanish	O a 2	462
Epitaphs	U z 4	929	Eucharist	A g, A l 1	265
Equador	U d 13 +, U y 11	989	Eulogies	O c 1, U z	920, 259
Equestrian exercise	I x 1	798	Europe—botany	I l 1, I l 5	584
Equipments of armies	I w	355	customs and costumes	U f 9	394
“ of navies	I v	359	ecclesiastical history	A o	274
Equity	E e	344	geography	U b, U b 2	914
Erse language	O a 2, U p 2 +	496	geology	I l 3	554
“ poetry	O d 2 Δ , O d 6	896	history	U o	940
Eschatology	A l	236	statistics	U c	314
Esquimaux	I m 2, U d 3 +	979, 998	travels	U d 6	914
<i>Esoteric Buddhism Ag 4 +</i>			Evidence (law)	E a	349
Essays, English literature	O m 2	824	Evidences of Christianity	A f	239
“ fine arts	I s	704	Evil	A l, I a, I e 3	216
“ French	O m 3	844	Evolution	I l 7	575
“ German	O m 4	834	Exchange	I i 2	332
“ history	<i>on un</i>	904	Exchequer	U p 5 +	352
“ Italian	O m 5	854	Excise	I i 2	336
“ literature	O m, Y k	804	Excise laws	I g 5, I i 2	337
“ miscellaneous	O k, O m	804, 814, 824, etc.	Exegesis	A e	220
“ natural science	I k	504	Exemplaria typographica	Y g 2	020
“ philology	O a	404	Exhibitions, art	I s 6, I u 16	708
“ philosophy	I a	104	“ industrial	I u 16	606
“ political	U p 6, U y 6	329	Ex libris	Y i 4	027
“ science	I y, I z	504	Exodus	A e, U f 4	222
“ sociology	<i>I m 3</i>	304	Experimental Chemistry	I k 4	542
“ Spanish	O m	864	Explorations	U d	910
			Explosives	I u 10, I w	662
			Expository sermons	A m	258
			Express companies	I i 6	385
			Exstasies	I e 3	135
			Extracts	O m, O p 2, U n	829

ALPHABETICAL INDEX.

45

Extracts, historical	Un	904	Field books, engineering	Ii5	629
Eye, diseases	In5	616	Field sports	Ix1	795-799
“ functions	Ir	612	Figure of the earth	Ip	526
Fables	Of	819, 829, 839, etc.	Fiji	Ud3, Ux5	919
Facetiæ	Of	819, 829, 839, etc.	Filibusters	Uy13 363, 345, 978	
Fairs, agricultural	Iu11△	630, 606	Final causes	Ia	113
“ commercial	Ii3△		Finances	Ii2, Up5+, Uy7△	330
“ industrial	Iu16	606	Fine arts	Is	700
Fairy tales	Of7	813, 823, 833, etc.	biography of	Uz1△	927
Faith	Al	234, 163	Finger rings	It6+	390
Faith and reason	Af1	234	Finland	Ur2	947
Family	Ig2	173	Finno-Hungarian langu'ge	Oa2	499
“ histories	Uh2	929	Fire arms	Iw	355, 683
“ histories, American	Uh2+	929	“ departments	Uy8	369
“ medicine	In2	616	“ engines	It5	621
“ worship	Ah	247	“ insurance	Io4+	368
Fanaticism	Al, Ao	133	“ works	Ix1	662
Farces	Oe2	828, 838, etc., 791	“ worshippers	Aq5	295
Farming	Iu11	630	Fish culture	Iu11□	639
Farriery	Iu13	682	Fisheries, sea	Iv3	639
Farther India <i>Ux3,</i>	Ud11	915, 954	Fishes	Il6	597
Far West	Uy2+	917, 977	“ palæontology	Il2	567
Fashion	Uf9	177	Fishing	Ix1	799
Fasti	Ul, Um, etc.	S	Flagellants	Ao15+	271
Fasts	Ag	244	Flags <i>Uh</i>	Uf9	929
Fatalism	Ia	159	Flanders	Ut	949
Fathers of the Church	Ak	270	Flax	Iu5	633, 677
Fauna	Il1	590	Flemish painting	Is10, Uz1△	753
Feasts	Ag, Iu15	244	Flies	Il6	595
Federalism	Uy6	324	Flora	Il5	584-589
Federalist (the book)	Uy6+	324	Florence	Un5	945
Feet	In1, Iu8 611, 811,	389	Florida	Uy8	976
Female education	Ih	376	Flower garden	Iu12	716, 583
“ employments	Ig2	376	Flowers	Il5	580
“ seminaries	Ih2	378	Fluxions	Io1	517
“ suffrage	Ig2	324	Folk-lore	Of7	291-293
Fencing	Ix1	766	Food	In7, Iu15	643
Fermentation	Ik4, Iu10+	663	Force	Ik1	111
Ferns	Il5	582	Foreign missions	Ao15	267
Festivals, Church	Ag	282, 283	“ relations	Uy7iv	327
Fetichism	Aq	299	“ trade	Ii3, Uy7△	382
Feudal institutions	Ed, Uh	322	Forestry	Iu12	715
Feudal law	Ed	322	Forgery	Eh	345
Fevers	In5	616	Formation of character	Ih4	374
Fichte, philosophy of	Ia1	193	Form books	Ea	349
Fiction	Of, Of1, 2, 3, 4 813, 823, 833, 843, etc.		Formosa	Ud11	951
			Fortification	Iw	623
			Fortune-telling	Ie2	133
			Fossil man	Uf2	571
			Fossils	Il2	560
			Foundries	Iu3	671



Foundling hospitals	Ii 7	361	Gas-fitting	It 5	696
Fountains	Iu 12	714	" lighting	It 5	665, 644
Fourierism	Ia, Ia 1	335	" making	It 5	665
Fowling	Ix 1	799	Gastronomy	Iu 15	641
Fowls	Iu 13	636	Gauging	Iu 10 +	389
Fractures	In 4	617	Gazetteers	Ub	910
France	Ud 8, Uv	944	Gem engraving	Is 3, It 6 +	736
Franchise	Ii, Up 6, Uy 6	324	Gems	Il 4, It 6	549
Franciscans	Ao 15 +	271	Genealogy	Uh	929
Franconia	Us	943	Generation, Spontaneous	Il 7	577
Franco-Prussian war	Uv 7	943, 944	Genesis	Ac 3, Af 1	222
Fraud	Uh	345	Genoa	Uc, Uu 5	945
Freedmen	Uy 5	326	Geodesy	Io 2	526
Free-hand drawing	Is 1	741	Geography	Ub	910
Freemasonry	Ui	366	" Africa	Ub, Ub 4	916
Free trade	Ii 1	337	" ancient	Ub, Ub 1 +	912
Freewill	Ic	159	" Asia	Ub, Ub 3	915
French biography	Uz 2	920-9 S	" biblical	Ad	220, 912
" drama	Oe 3	842	" Europe	Ub, Ub 2	914
" fiction	Of 3	843	" historical	Ua, Ub 1 +	911
" language	Oa 2	440	" modern	Ub	913
" " old	Oa 2, Od 3 +	449	" N. America	Ub, Ub 5, 6,	
" literature	Od 3, Oe 3, Oi 3	840	" 7, 8		917
" painting	Is 2	754	" physical	Ub 11	551
" philosophy	Ia 1	194	" S. America	Ub, Ub 5	918
" poetry	Od 3	841	Geological reports	Il 3	554-9
" Republic	Uv 8	944	Geology	Il 2	550
" revolution	Uv 2	944	" and religion	Af 1	215
" sculpture	Is 4	735	" dynamical	Il 2	553
Fresco painting	It 6	751	Geometry	Io 2	513
Friction	Iq	531	" analytical	Io 2	516
Friendly societies	Ii 7	366	Georgia	Ud 11 □, Uy 8	
Friends, Society of	Ao 10	289			959, 976
Friendship	Ig 1	157	German drama	Oe 4	832
Fruit culture	Iu 11 +	634	" empire, new	Us 3	914, 943
Fuel	Il 4 +, It 5	644	" fiction	Of 4	833
Funds and funding	Ii 2	336	" language	Oa 2	430
Funeral rites	Uf 9	390	" " low	Oa 2	439
Funeral sermons	Oc 1, Uz	259	" literature	Oi 4, Yk 4	830
Funerals	Uf 9	390	" painting	Is 2	753
Furniture	It 6	645	" philosophy	Ia 1	193
Future life	Al, Ie	218	" poetry	Od 4	831
Gaelic language	Oa 2	496	" reformation	Ao 11 +	274, 943
Galleries of art	Is 6	708	" Reformed Church	Ao 11 +	289
Galvanism	Ik 1	537	Germany	Ud 7, Us	943
Gambling	Iq 6, Ix 2	175	Ghosts	Ie 3	133
Game laws	Uh	345	Giants	Im	573
Games	Ix, Ix 1	793-7	Gipsies	Uk	949
" table and parlor	Ix 2	793	Girondists	Uv 2	363, 944
Gardening	Iu 11	635	Glaciers	Il 2	553
" Landscape	Iu 12	710	Glass	Iu 9	666
Gases	Ik 4	546, 665	" painting	Is 2	751

French
in Targuin
No 3

ALPHABETICAL INDEX.

47

Glazing	Iu 10	698	Greek, modern	O a 1, U l 1	489
Glees	Od 2 +	784	" mythology	A q 2	292
Globes, use of	I p	522	" philosophy	I a, I a 1	180, 888
Glossaries	O a 2	413, 423, 433, etc.	Greenhouses	Iu 12	583, 635
Gloves	U f 9	646, 675, 677	Greenland	U y 12	998
Gnostics	A o 16	281	Grounds, private	Iu 12	712
God	A b	231	Groves	Iu 12	715
Gold	I i 2	549, 671	Guatemala	U y 10,	
Goniometry	I o 2	514		U d 13 Δ	979
Good-Friday	A g	244	Guiana	U y 11 □	988
Gospels	A c 6, <i>Ad 1</i>	226	Guide books	U c 1	910
" harmony of	A d	226	Guilds	I i 3 Δ	367
Gothic architecture	I t 1	723	Guillotine	U v 2	345
Goths	U o 1	943	Guinea	U d 12 vi, U x 10	967
Gout	I n 5	616	Gun cotton	Iu 10	355, 662
Government	I i	320	Gunnery	I w	355
Grace	A l	234	Gunpowder	Iu 10, I w	355, 662
Grafting	Iu 11 +	634	Gunsmithery	Iu 3	683
Grains	Iu 11	633	Gutta percha	Iu 8	679
Grammars, comparative	O a	415	Gymnastics	I x 1	613
" English	O a 2	425	Gypsies	U k	949
" French	O a 2	445	Gynæcology	I n 4	618
" German	O a 2	435	Habeas corpus	E f	343
" Greek	O a 1	485	Hades	A l, A o 8	292
" Italian	O a 2	455	Hair	I n 1, Iu 17 611,	390
" Latin	O a 1	475	Hakluyt society	U d 1	910
" Spanish	O a 2	465	Hallucinations	I e 3	133
Granada	U x 6 +, U w	946	Hamiltonian philosophy	I a 1	192
Grangers	U y 6	363	Hand	I n 1	611
Grape culture	Iu 11 +	634	Handbooks of travel	U c 1	S, 910
Grasses	I l 5	633	Happiness	I g 1	171
" ornamental	Iu 12	716, 583	Harbors	U b 10	627
Gravel (disease)	I n 5	616	Harmony, music	I s 7	781
Grave-stones	U z 4	718	" of colors	I s 2	752, 535
" yards	Iu 12, U y 9	719	" of gospels	A d	226
Gravitation	I k 1	531	Harness-making	Iu 8	685
Great Britain <i>Up 3</i>	U c 2, 3, 4,		Harpsichord	I s 7 vi	787
	U d 9, U p 6	941-2	Hasheesh	I n 2 +	615
Greece, ancient	U f 6, U l	938	Hats	Iu 10	646
" modern	U d 10, U l 1	949	Hayti	U y 9 iv	917, 979
" poetry	Od 1	881	Health	I n 7	613
" sculpture	I s 4	733	" public	I n 7	614
" translations	Od 1, O e 1, etc.	880	" resorts	I l 2 + I n 3 Δ,	
" travels	U d 10	914		U c 1	613, 910
Greek antiquities	U f 6	938	Heart diseases	I n 5	616
" architecture	I t, U f 6	722	Heat	I k 1	536
" Church	A o 1	281	Heathen religions	A q	290
" commentaries	A e, O i 1	488	Heating	I t 5	697
" drama	O e 1	882	Heaven	A l	237
" language	O a 1	480	Hebrew history	A n	933
" literature	O i 1, Y k 1	880	" language	O a 2	493
			" literature	A n	893

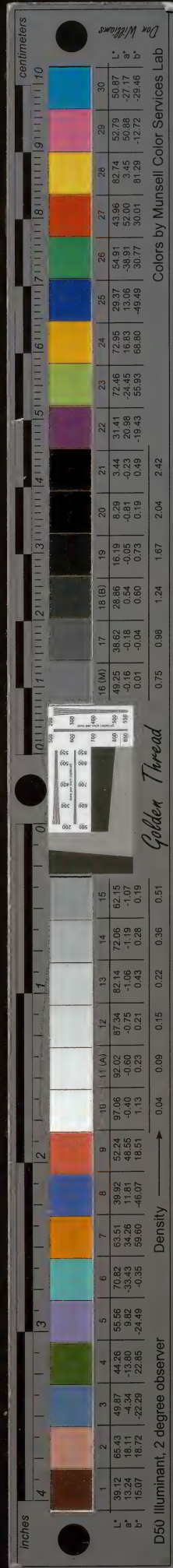


Hebrew poetry	<i>He (?)</i> An	893	History—		
Hebrides	Uc2△, Up2	941	philology	Oa	409
Hedges	Iu11, 12	715	philosophy	Ia1	109
Hegelian philosophy	Ia1	193	philosophy of	Ua	901
Heliotypes	Is5	774	science	Ik	509
Hell	Al, Ao8	237	sociology	Im3	309
Heraclitic philosophy	Ia1	182	theology	Ao16	209
Heraldry	Uh1	929	universal	Ue	909
Herbariums	Il5	582	useful arts	Iu	609
Herculaneum	Uf6+	646	Histrionics	<i>Q</i> e	792
<i>Heredity</i> Heresies	Ao16	273	Holland	Ud7, Ut	914, 949
Hermaphrodites	In1	590, 612	Holland: geography	Ub	914
Hermeneutics	Ae	220	history	Ut	949
Hermetics	Ie	133	travels	Ud7	914
Herpetology	Ii6	598	Holy Ghost	Al	878
Herzegovina	Ud10, Ux1+	914, 943	Holy Land	Ud10+	933, 956
<i>Hibbert lectures. Ag1</i> Hieroglyphics	Uf4	419	geography	Ud10+	588
Higher education	Ih	373	history	Ud10+	959
Highlands, Scottish	Is6□, Od2△,		travels	Ud10+	915
<i>Blair, Ubr2</i> Highwaymen	Uz1	345	Holy Roman Empire	Us2	927
Himalayas	Ud11	915	Home education	Ih4	371, 374
Hindoo languages	Oa2	494	" missions	Ao15	266
" literature	Aq4, Yk6	894	Homer	Od1+	883
Hindustan	Ux3	915, 954	Homicide	Eh	345
Hinduism	Aq4	294	Homiletics	<i>Am</i>	251
Hindustan	Ud11, Ux3,		Homœopathy	In3□	615
	Uf3.	915, 954	Homologies	In1, Io2	574
Histology	In1	611	Honey	Iu14,	638
Historical books of Bible	Ac	222	Horned cattle	Iu13	636
" charts & tables	Ua	908	Horology	Iu6	681
" collaterals	Un	S, 310	Horse	Iu13, Ix1	636,
" dictionaries	Ue1	903			599, 337, 619
" extracts	Un	S	Horse-racing	Ix1	798
" geography	Ub	911	" shoeing	Iu13	682
" magazines	Oo	905	Horsemanship	Ix1	798
" registers	Oo	902	Hortatory theology	Am	243
" societies	Uy8	906	Horticultural societies	Iu11△	635, 716
" theology	Ao16	851-4	Horticulture	Iu12	635
HISTORY	U	900	Hospitals	Ii7, In8	361
ancient	Ue	930-939	Hotels	Ue1	390
biography of	Uz1	928	Hothouses	Iu12	583, 635
Continental	Uo	940	Housekeeping	Iu17	640
ecclesiastical	Ao	270	House of Correction	Eh	364
fine arts	Is10	709	House of Refuge	Eh	364
geography	Ub	910	House painting	It6	698
Greek	U1	889	Houses, royal and noble	Uh2	323, 322
Latin	Um	879	Housewifery	Iu17	640
literature	Yk	809	Hudson's Bay territory	Uy9viii	919, 995
modern	Uo	940-999	Huguenots	Ao11□	289, 944
natural sciences	Ik	509	Hulsean lectures	Af	239
			Human anatomy	In1	611
			Human body	In1	611

ALPHABETICAL INDEX.

49

Human body and mind	In 8	130	Independents	A o 5	289 or 285
mind	I c	150	Indexes	Om 6	17
physiology	In 1	612	India, ancient history	U x 3	934
Humane societies	I i 7	361	“ modern “	U x 3 +	954
Humor	Of	818	India, British	U x 3 +	915, 654
English	Of 2	828	Indian languages	O a 2	494
French	Of 3	848	“ literature	Y k 6	894
German	Of 4	838	Indiana	U y 8	977
Greek	Of 1	887	Indian Bureau	U y 1	353
Italian	Of 5	858	Indians, American	Im 2, U f 8,	
Spanish	Of 6	868	“ “ language	U y 1	970
Hungary	U d 7, U s 1	914, 943	“ “ ethnology	O a 2	499
Hunting	I x 1	799	India-rubber	Im 2, U y 1	572
Hurricanes	I k 3	533	Indigestion	I u 8	675
Husbandry	I u 13	630	Indoor amusements	In 5	616
Hybridism	I l 7	590	Induction	I x 2	793
Hydraulic engineering	I i 5	628	Inductive logic	I a	161
Hydraulics	I q	532	Industrial drawing	I f	161
Hydrodynamics	I q	532	“ schools	I s 1	744
Hydrography	U a b 10	551, 627, 527	Industrial exhibitions	I h 2	607
Hydromechanics	I q	532	history	I u 16	606
Hydropathy	In 3	615	Inebriate institutions	I u	609
Hydrophobia	In 5	614, 616	Infallibility	I i 7	364
Hydrostatics	I q	532	Infanticide	A l 1 +	238, 282
Hygiene	In 7	613	Infantry	E i	173, 345
“ mental	In 8	131	Infidel books	I w	356
Hymnology	A i	245	Infidelity	A f	211
Hypochondria	In 5, In 8	132, 616	Ink	A f	211
Icebergs	U d 3 +	553	Inoculation	Y g	661
Iceland	U r 1	948	Inorganic chemistry	In 5	614, 615
Icelandic language	O a 2	498	Inquisition	I k 4	546
Icelandic literature	Y k 4	898	Insane Hospitals	A o 12	272
“ poetry	O d 6	898	Insanity	In 8	361
Ichthyology	I l 6	597	Inscriptions	In 8	132
Iconography	I s 4	732	Insects	U f	417
“ Christian	I s 8	730	“ injurious	I l 6	595
Idealistic psychology	I c	141	Inspiration	I u 11 iv	632
Idiocy	In 8	132	Instinct	A f 3	238
Idiot schools	In 8	361	Institute of France	I l 6	158
Idolatry	A q	290	Institutions	I y 3	64
Illinois	U y 8	977	“ educational	I i	360
Illuminated manuscripts	Y i 2	21	“ Feudal	I h 2	378
Illumination (lighting)	I t 5	644	“ Monarchic	Ed, U o 1	322
Illustrated journals	I s 6 +	705	“ Musical	I i	323
Imagination	I c	156	“ of religion	I s 7	789
Immersion	A o 6	264, 286	“ Patriarchal	A	260
Immigration	I i 3	325	“ Republican	A n	321
Immortality	A l, I e	218, 237	Instruction	I i	324
Imprisonment for debt	E h	345	Instrumental music	I h	371
Incarnation	A l	232	Instruments, engineering	I s 7	785
Income	I i 2	333	“ making	I o 3	629
Incunabula	Y i 3	23		I o 5, I u 6	681

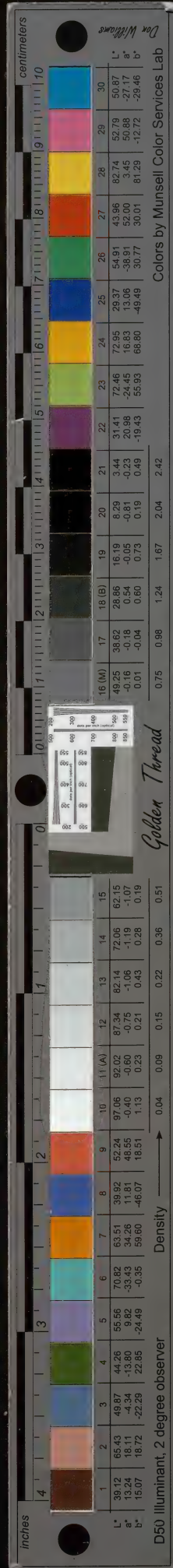


Insurance	I o 4 +	368	Italian drama	O e 5	852
Insurance companies	I o 4 +	368	“ fiction	O f 5	853
Integral calculus	I o 1	517	“ language	O a 2	450
Intellect	I c	151	“ literature	O i 5, Y k 5	850
Intellectual philosophy	I c	140-150	“ music	I s 7 Δ	780
Intemperance	I g 5, I n 2 +	178	“ painting	I s 10	755
Intercommunication	I i 5	380, 650	“ philosophy	I a 1	195
Interest	I i 2	334	“ poetry	O d 5	851
“ tables	I i 2	658	“ renaissance	U o 1, U u	945
Interior Department	U y 7 vi	353	“ republics	U u 5	945
Intermarriage	I g 2	136, 618	“ sculpture	I s 4	734, 735
Intermediate state	A 1	237	Italy	U b	8
Interment	U f 9	614, 390	history	U u	945
Internal improvements	I i 5	620	travels	U d 8	914
International copyright	E m	343	Jacobins	U v 2	363, 944
International exhibitions	I u 16	600	Jainism	A q 4	294
“ law	E b	341	Jamaica	U y 9 \square	979
Intolerance	A a	272	Jansenism	A o 2 +	282
Intuitive psychology	I c	143	Japan <i>history</i>	U x 2	952
Inventions	I u	608	<i>Japan travels</i>	I s	8
Inventors, lives of	I u, U z 1	926	Japanese art	O a 2	499
Invertebrates	I l 6	592	language	O a 2, Y k 6	899
“ palæontology	I l 2	562	literature	I u 9	698
Investments	I i 2	333	Japanning	U x 3 Δ	992
Ionian Islands	U l 1	949	Java	U d 10 Δ	915, 956, 933
Ionic philosophy	I a 1	182	Jerusalem	O f	819, 829, 839, etc.
Iowa	U y 8	977	Jests	A o 15 Δ ,	
Iranian languages	O a	495	Jesuit missions	U y 9 +	266, 282
“ literature	Y k 6	895	Jesuits	A o 15 Δ	271, 282
Ireland	U c 2 +, U d 9,		Jesus	A d, A l	232
	U p 4	941	Jewelry <i>It 6 +</i>	I t 6, I u 10,	
Ireland, geography	U b, U c 2 +	914		U f 9	646, 671
history	U p 4	941	Jewish antiquities	A n	933
travels	U d 9	914	literature	A n	803
Irish bards	U p 4 +	928, 821	philosophy	A n	180, 181
“ church	A o 2, 3	283	religion	A c 3, A n	281
“ language	O a 2	496	Jews, ancient	A d	933
“ literature	Y k 6	896, 820	history	A n	933
“ music	I s 7	780	medieval	A n, U o 1	956
“ poetry	O d, U p 4 +	896	modern	A n	956
Iron	I l 4 +	672	Joinery	I t 4	694
“ architecture	I t, I u 3	691	Journalism	O p 1	50
“ bridges	I i 5, I u 3	624	Judaism	A n	296
“ manufacture	I u 3	672	Judgment and future state	A l	237
“ metallurgy	I u 3	672	Junius letters	U p 6 +	329
“ mineral	I l 4 +	549, 669	JURISPRUDENCE	E	340
“ ships	I v	699	Jury trial	E e	342
Iron-clad ships	I v	359, 699	Justification	A l	234
Irrigation	I u 11	631	Joan of Arc	U v 1 +	944
Islam	A p	297	John, epistles of	A c 6 A e	227
Isle of Man	U c 3	914, 942			
Israelites	A n	933			

ALPHABETICAL INDEX.

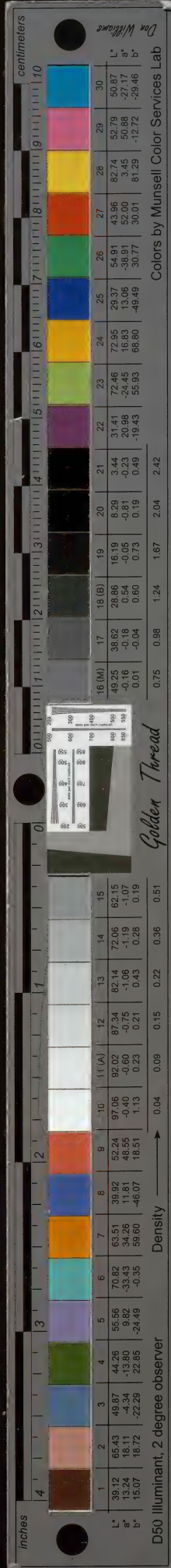
51

John, gospel of	Ac 6 Ae	226	Latin, medieval	Oa 1	479
" revelation of	Ac 6 Ae	228	" poets	Od 1	871
Journeys round the world	Ud 3	910	Laundry	Iu 17	648
Judges, lives of	Uz 1 □	923	Law	E	340
Jugglery	Ix 2	133	ancient	Ed	340
Jurisprudence, medical	Ei	343	canon	Ed	348
Juvenile books	Of 2 +	8	civil	Ed	348
criminals	Eh 345, 364, 296,		commercial	Ee 2	343
<i>Kalevala - Ur 2</i>	391, 893		common	Ee	343
Kabbala	An	705	constitutional	Ef	342
Kafirs	Ud 12 △, Ux 11	968	criminal	Eh 1	345
Kaleidoscope	Ir 1	536	dictionaries	Ea 1	340
Kamschatka	Ud 11 +,		English	Ef 3	340
	Uq 2	915, 959	French	Ef 4	340
Kansas	Uy 8	977	history of	Ea	340
Kant's philosophy	Ia	193, 142	maritime	Eb	346
Keltic, ancient history	Uo 4	936	mercantile	Ee 2	343
" language	Oa 2	496	military	En	347
" literature	Yk 6	896	of nations	Eb	341
Kentucky	Uy 8	976	of real property	Ee 1	343
Kindergarten	Ih	372	of U. S.	Ef 1	340
Kinematics	Iq	531	Roman	Ed	348
Knighthood	Uh 3	322	Lawns	Iu 12	712
Kings	Uz 1 note	923	Lawyers' lives	Uz, Uz 1 □	923
Kitchen economy	Iu 15	640	Lazarettos	Ii 7	361
gardening	Iu 11	635	Lead	Iu 4	549, 671
middens	Uf 1 571.93 322		metallurgy of	Iu 4	669, 671
Knighthood	Uh 3 929.7		mining	Ii 4	628
Koran	Ap 2	297	Leather	Iu 8	675
Labor	Ii 1	331	Lectures	Oc, etc.	815, 825, 835, etc.
Labor questions	Ii 1	331	Legends	Of	291-293
Laboring classes	Ii 1	331	Legerdemain	Ix 2	133
Labrador	Uy 12	972	Legislation	Ef	343, 328
Lace-making	Iu 5	677	Legislative annals	Uy 7, etc.	328
Laconics	Om		Legitimacy	Ee 3	343
Lake dwellings	Uf 1	571	Lent	Ag	244
" surveys	Ub 10	622, 656	Lepidoptera	Ii 6	595
Lakes, artificial	Iu 12	714	Letter writing	Oh 1	816
Lamaism	Aq 4	294	Lettering, ornamental	Yg 4	145
Land surveying	Io 2	622	Letters	Oh	816
Landlord and tenant	Ee 1	333	alphabetical	Oa 411, 421, etc.	
Landscape gardening	Iu 12	710	(correspondence)	Oh	816
" painting	Is 2	758	Levant	Ud 10	956, 962
" photographs	Is 5	778	Levelling	Ii 5	622
Language, universal	Oa	408	Leviticus	Ac 3	222
Lapland	Ur 2	947, 948	Lexicography	Oa	403, 413
Late war (1812)	Uy 4	973	Lexicons	Oa 1, 2	413, 423, 433, etc.
Latin Church	Ao 2	282	Libel	Ee	345
" classics	Oi 1 +	870	Liberia	Ii 4 +	916, 969
" language	Oa 1	470	Liberty	Ii	324
" literary history	Yk 1	470			
" literature	Od 1, Oi 1, etc.	870			



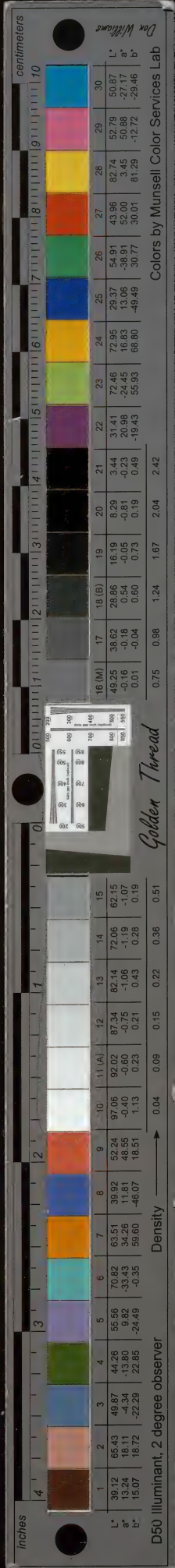
Liberty of press	E e	324	Logic	I f	160
Libraries	Y, d, e, f	19	Lollards	A o 15 +	289
“ sales of	Y e	17, 18, 19	London	U e 3 +	914, 942
Library catalogues	Y d, e	17, 18	Longevity	I n 7	312
“ economy	Y f	19	Lord's day	A n 1	263
“ history and reports	Y f	19	“ Prayer	A h	217
Librettos, opera	O e 7	782	“ Supper	A g	265
Lichens	I l 5	582	Lorraine	U s, U v	943, 944
Life	I l 7	570	Lotteries	I g 6	175
“ boats	U d 5	699	Louis Philippe	U v 4	923
“ future	A l, I e	218, 237	Louisiana	U y 8	976
“ insurance	I o 4 +	368	Low countries	U t	949
“ (physiologically)	I l 7	570	“ Dutch	O a 2	439
Light	I r	535	Loyalists	U y 3 +	973
Lighthouses and ships	U b 10	656, 627	Luke	A e 6, 4e	226
Lightning and light'g-rods	I k 3, I t 5	537	Lunacy	I n 8	132
Lights and fuel	I t 5	644	Lunatic asylums	I n 8	361
Line engraving	I s 3	765	Lung diseases	I n 5	616
Linen manufacture	I n 5	677	Lutherans	A o 11 +	289
Linguistics	O a	400	Lyric poetry	O d	811, 821, 831, etc.
Liquors	I g 5, I u 10 +	663	“ “ Greek	O d 1	884
Litany	A g 1, 2	244	“ “ Latin	O d 1	874
Literary criticism	O b	824, 834, 844, etc.	Mabinogion	O f 7	
periodicals	O n	805	Macaronics	O d 7	819, 829, etc.
miscellanies	O l m	819	Machine engraving	I s 3	768
English	O l 2 m	829	Machinery	I q	621
French	O l 3 m	840	Machines	I q	621
German	O l 4 m	839	Madagascar	U x 3	969
Italian	O l 5 m	859	Madeira	U d 8 +	914
Spanish	O l 6 m	869	Madness	I n 8	132
property	E m	343	Magazines	O n	50, 105, 205, etc.
Literature	O	800	Magic	I e, I x 2	133
ancient	Y k 1	870, 899	Magnetic observations	I k 3	538
biography of	U z, Y k	928	Magnetism	I k 1	538
classical	O d 1, O e 1, etc. Y k 1	870, 880, 488-498	“ animal	I e 4	134
history of	Y k	809	Magyar language	O a 2	497
medieval	Y k 6	S	literature	Y k 6	897
modern	Y k	S	poetry	O d 6	897
oriental	Y k 6	890	Magyars	U s 1	943
Lithography	I s 3	763	Mahometanism	A p	297
Lithology	I l 4	552	Mails	I i 3 +	383
Liturgies	A g	444	Maine	U y 8	974
Local histories, American	U y 8, U y 9 +	976, 980	Malacca	U d 11, U x 3	901, 919
“ “ British	U e 3	941, 942	Malaria	I n 6	614
Locke	I e	192, 145	Malayan language	O a 2	499
Locks and keys	I u 10	683	Malaysia	U x 3	991
Locomotives	I i 6	621	Malt	I u 10 +	663
Logarithms	I o 3	514	Malta	U h 3 +	949
“ tables	I o 3	514	Mamelukes	U x 1	962

Mammalia	I16	599	Mauritius	U x 3 □	
“ palæontology	I12	569	Mausoleums	Is 4, Uf 9	718
Man	Im	233	Maxims	Og 819, 829, 839,	etc.
“ antiquity of	Uf 1	571	Measles	In 5	616
Sup. 44 “ ethnography	Im 2	390	Measures and weights	Ii 3	389
“ mental nature of	Ic	130, 150	Mechanic arts and trades	Iu	680
“ natural history of	Im	573	“ dictionaries	Iu	603
“ physiology of	In 1	612	“ exhibitions	Iu 16	606
Mania	In 8	132	“ periodicals and transac-		
Maniacs	In 8	132	“ tions	Iu	605
Manitoba	Uy 9 viii	917, 971	Mechanical drawing	Is 1	744
Manners and customs	Uf 9	390	“ engineering	Iq	621
Manuals, collectors’	Il, Is, Ug, etc	579	“ trades	Iu	680
“ travellers’	Ud	910	Mechanics	Iq	531
Manufactures	Iu	670	Mechanics’ associations	Ii 1	606
“ history of	Iu	670	Medals	Ug	737
Manures	Iu 11	631	Medical biography	In 9, Uz	926
Manuscripts	Uz 5, Yi 2	13-21	“ botany	In 2	615
Maps	Ub 1, Ub 2, etc.	910	“ dictionaries	In	610
“ astronomical	Ip	524	“ directories	In 9	610
Marble manufacture	Is 4	673	“ education	In 9	610
Marbles	Il 4	731	“ ethics	In 3 +	174, 616
Marine architecture	Iv	699	“ history	In 9	610
“ insurance	Io 4 +	368	“ jurisprudence	Ei	343
“ law	Eb	346	“ periodicals and transac-		
Maritime law	Eb	346	“ tions	In	610
Mark	Ac 6, Ae	226	“ practice	In 3	616
Market gardening	Iu 11	635, 643	“ schools	In 9	610
Markets	Iu 15	643	Medicine	In	610
Marriage, customs	Uf 9	390	“ history of	In 9	610
“ ethics	Ig 2	173	“ veterinary	Iu 13	619
“ law	Ee 3	343	Medieval architecture	It	723
Martial law	En	347	“ art	Is 10	709
Martyrs	Ac 13	272	“ customs, costumes	Uf 9	392
Mary Queen of Scots	Up 2 Δ	933	“ design	Is 1	747
Maryland	Uy 8	976	“ history	Uo 1	900
Mason & Dixon’s line	Uy 8	326	“ Latin	Oa 1	479
Masonry	It 3	693	“ philosophy	Ia 1	108, 109
“ Free	Ui	366	“ sculpture	Is 4	734
Massachusetts In 7	Uy 8	974	Meditations, theology	Ah	242
Materia medica	In 2	615	Mediterranean	Ub 10, Ud 6	8
Materialism	Ic	146	Melancholy	In 8	132
Materials, building	It	691	Melanésie	U x 5	
Maternity	Ig 2, In 4	136, 618	Melodeon	Is 7 vi	786
Mathematical drawing	Is 1	744	Melody	Is 7	781
“ instruments	Io 3	629	Memoirs	Uz	920
“ tables	Io 3	514	“ scientific	Iy	506
Mathematics	Io	510	Memory	Iu 1	154
“ history of	Io	510	Mensuration	Io 2	612
“ periodicals and transac-			“ derangement	In 8	132
“ tions	Io	510	“ faculties	Ic	158
Matthew	Ac 6, Ae	226			



Mental hygiene	In 8	131	Mineralogy	I14	549
“ philosophy	Ic	140-150	Mines, mining	I14	628
“ physiology	In 8	131	Miniatures	Is 2	757
“ science	Ic	150	Mining companies	I14△	628
Mercantile law	Ee 2	343	Ministers	Al	250
manuals	Ii 3	656	“ lives	Ao 14, Uz	922
theory and practice	Ii 3	382, 658	“ office and duty of	Al	250
Merchant service	Ii 3+, Iv 1	387	Minnesingers	Od 4	831
Merchants, lives of	Ii 3+, Uz	923	Minnesota	Uy 8	977
Mesmerism	Ie 4	134	Minstrelsy	Od 2+, etc.	811, 821, 831, etc.
Mesopotamia	Ud 10, Ux 1	959	Mints	Ii 2	332
Messiah	Al, An	232	Miracles	Af 2	231
Metal manufactures	Iu 4	671	Miscellanies, historical	Un	902, 904
Metallurgy	I14, Iu 4	669	Miscellany, literary	Om	819, 8
Metaphysics	Ic	110	English	Om 2	829, 8
Meteorology	Ik 3	551	French	Om 3	849, 8
Methodism	Ao 7	287	German	Om 4	839, 8
Methodology	Ic	112	Italian	Om 5	859, 8
Methods of education	Ih	371	Spanish	Om 6	869, 8
Metric system	Ii 3	389	Missals	Ag 1, Yi 2	244, 282
Metrology	Ii 3	389	Missions	Ao 15	266
Mexican war	Uy 10+	973, 978	“ foreign	Ao 15	267
Mexico	Uy 10	978	Missionaries	Ao 14	266, 267, 922
geography	Ub	917	Mississippi River	Ub 10	917
history	Uy 10	978	“ State of	Uy 8	976
travels	Ud 13	917	“ Valley	Uy 2+	917, 977
Mezzotint	Is 3	776	Missouri	Uy 8	917, 977
Michigan	Uy 8	917, 977	“ River	Ub 10, Uy 2+	917
Microscopy	Ir 1	578	Mnemonics	Iu 1	154
Middle ages, history	Uo 1	8	Moab	Ud 10+	933
“ States	Uy 2	975	Modeling	Is 4	731
Midwifery	In 4	618	Modern architecture	It	724
Military and naval arts	Iv, Iw	355-359	“ costumes, customs	Uf 9	393-399
academies	Ih 2, En	355, 378	“ geography	Ub	913-919
engineering	Iw	623	“ Greek	Oa 1	489
history	Iw 1	355	“ history	Uo	940-999
law	En	347	“ philosophy	Ia	190
schools	Ih 2	355, 378	“ sculpture	Is 4	735
science	Iw	355	“ thought	Im 3	215
surgery	In 4	617	Mohammedanism	Ap	297
Militia	Iw	355	Molecular physics	Ik	539
“ laws	En		Mollusca	I16	594
Milk	Iu 13	637	palæontology	I12	564
Millennium	Al	236	Monaco	Uu 5	914, 945
Millinery	Iu 17	646	Monarchic institutions	Ii	323
Mills, cotton, woollen, etc.	Iu 5	677, 678	Monasteries	Ao 15+	271
paper	Yg	676	Monastic orders	Ao 15+	271
Mill-work, Mill-wrights	Iu 10	621	Money	Ii 2	332
Mind	Ic	150	Mongolian language	Oa 2	499
“ and body	In 8	130	Monitors, iron-clads	Iv	359, 699
Mineral waters	I12+	615	Monks	Ao 15+	271

Monograms	Is 6, Y g 4	745-748	Musical instruments	Is 7 vi	786, 788
Monopolies	I i i	331	Musicians	U z i Δ	927
Montana	U y 8	977	Mutual aid societies	I i i	361
Montenegro	U d 6	914	Mysteries	A q 2 +, I e	133
Monuments	Is 4, U f	718	Mysticism	A o 2 +	289
Moon	I e p	523	Mythology, comparative	A q i	291
Moral philosophy, history	I g	170	“ German	A q 3	293
systems	I g	170	“ Greek & Roman	A q 2	292
Morals of amusements	I g 4	175	“ Norse	A q 3	293
business	I g 4	174	“ of Egypt	U f 4	291
marriage	I g 2	173, 176	“ Oriental	A q 4, 5, 6	294, 297
politics	I g	172	Myths	A q, O f 7	291
society	I g 3	177	Names	U h 2	929
young men	I g 3	170	Naples	U u 4	914, 945
young women	I g 2	170	Napoleon I	U v 3	923, 944
Moravian missions	A o i 5	266	“ III	U v 6	923, 944
Moravians	A o i i	289	Narcotics	I n 2 +	615
Morea	U l i	949	National costumes	U f 9	390
Mormonism	A o 9	298	“ customs	U f 9	390
Morocco	U x 9	964	Natural history	I l	550-590
Morphology	I l 5	581	“ “ Biblical	A d	220
Mortality statistics	U c	312	“ “ of different		
Mortar	I t 3	693	countries	I l i	550-599
Mortgages	E e i	343	Natural philosophy	I k	530
Mosaics	Is 2	751	“ science	I l	500
Moslems	A p	297	“ selection	I l 7	575
Mosquito shore	U y i o	979	“ system of botany	I l 5	582
Mosses	I l 5	582	“ theology	A b	210
Mothers	I g 2, I n 4	173	Naturalization	E b	325
Moths	I l 6	595, 646	Nature	I l	500
Mottoes	O g, U h i	819, 829, etc.	Naval architecture	I v	699
			“ history	I v i, U p 8, U y i 4	359
Mouldings	I t	721	Naval men, lives of	U p 8, U y i 4, U z	926
Mound-builders	U f 8	571	Naval schools	I h 2	359, 378
Mountains	U b i i	551	Naval science	I v	359
Mulberry	I u i i +	634	Naval war	I v	359
Municipal government	I i	342	Navies	I v, U p 8, U y i 4	359
“ law	E f	343	Navigation	I p, I v, U b i o	
Murder	E h	345			
Music	Is 7	780			
criticism	Is 7	780	“ laws	E b	527, 656
dictionaries	Is 7	780	Navy, British	U p 8	359, 941-2
history	Is 7	780	“ U. S.	U y 7 v	359, 973
periodicals	Is 7	780	Nebraska	U y 8	977
sacred	A i, Is 7 □	783	Necromancers	I e, U z i	133
secular	Is 7 i v	S	Needle-work	Is 8, I u i 7	646, 793
single compositions	Is 7 v	S	Negroes	I m 2 +	573, 326
songs with	Is 7 Δ	784	Negro slavery	I i 4, U y 6	326
vocal	Is 7 +	784	Neo-platonism	I a i	186
Musical collections	Is 7 i v	780, S	Nepotism	I i	323
“ composition	Is 7	781	Nervous system	I n i	611
“ drama	Is 7 Δ, O e 7	782	Nestorians	A o i	281

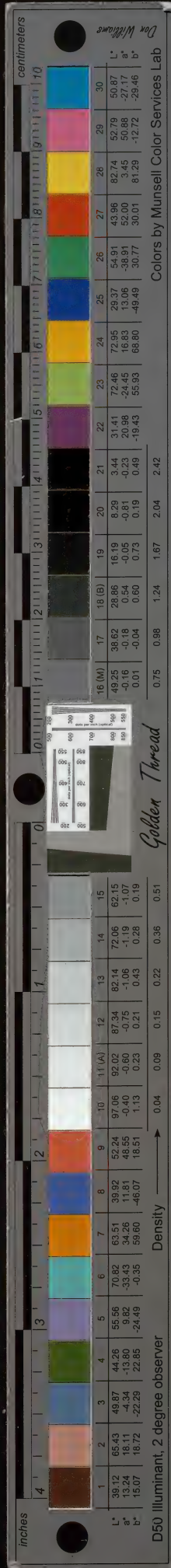


Netherlands	U t	949	Northwest Passage	U d 3	998
Neuroptera	I l 6	595	Norway	U f 7, U q 3, U r	948
Neutrals	E b	341	Nosology	I n 3	616
Nevada	U y 8	977	Nouvelle France	U y 9 +	972
New Brunswick	U y 9 Δ	972	Nova Scotia	U y 9 Δ	972
“ England	A o 5, U y 8	974	Novels	O f	813
“ Granada	U y 11	986	English	O f 2	823
“ Guinea	U d 4	995	French	O f 3	843
“ Hampshire	U y 8	974	German	O f 4	833
“ Jersey	U y 8	975	Italian	O f 5	853
“ Mexico	U y 8	978	Spanish	O f 6	863
“ Orleans	U y 8	917, 976	Nubia	U d 12 +, U x 4	962
“ Platonism	I a 1	186	Numbers, book of	A e 3	222
“ Testament	A c 5	225	Numismatics	U g	377
“ York	U y 8	975	Nunneries	A o 15 +	362
“ York city	U y 8	917, 975	Nursery	I u 17	649
“ Zealand	U d 4, U x 5	996	Nursing	I n 3	616, 649
Newfoundland	U y 9 Δ	971	Oaths	E a	349
Newspaper cuttings	O p 2	S	Object teaching	I h	371
Newspapers	O p	50	Observations, astronomical	I p	525
Nicaragua	U d 13 Δ , U y 10	979	Obstetrics	I n 4	618
Nile	U d 12 +, U x 4	916	Ocean currents	U b 10	551
Nineveh	U f 2	915, 935	“ exploration	U d 3	910
Nobility	U h	322	“ geography	U b 10	910
Nobles, lives of	U h 2	923	“ transportation	I v, I v 1	387, 656
Non-Christian religions	A q	290	“ world	U b 10 551, 597, 913	
Non-jurors	U p 1 Δ	283, 274, 942	Oceanica	U x 5	990
Normal schools	I h 2	371	botany	I l 1, I l 5	589
Norman conquest	U p 1	942-946	customs and costumes	U f 9	399
Normandy	U d 8, U v	944	ecclesiastical history	A o 15	279
Normans	U r	942, 944	geography	U b 9	919
Norse	O a 2	498	geology	I l 3	559
Norse language	O a 2	498	history	U x 5	990
literature	Y k 4	898	statistics	U x 5	319
poetry	O d 6	898	travels	U d 3	919
Norsemen	U r	948	Odd Fellows	U i	366
North Africa	U d 12 v, U x 9	961	Odontology	I n 4 +	611, 617
America	U y	970	Ohio	U y 8	977
American botany	I l 5	587	Oil, animal	I t 5	644
customs & costumes	U f 9, U y 1	397	coal	I l 2 Δ	644, 665
ecclesiastical hist'y	A o	277	vegetable	I u 11	633
geography	U b 5, 6, 7, 8	917	Oil manufacture	I t 5	665
geology	I l 3	557	Oil painting	I s 2	751
history	U y	970	Old Catholics	A o 2 +	282
statistics	U c 6	317	Old French	O a 2	449
travels	U d 13	917	Old Testament	A c 3	221
North Carolina	U y 8	976	Ontology	I c	111
Northmen	U r	948	Opera Houses	I t 7	725, 792, 982
North of Europe	A q 3, U d 7, U f 7	914, 948, 947	Operas	I s 7 Δ , O e 7	782
Northwest America	U d 3, U y 8	917, 971, 977	Opium	I n 2 +	615
			Optics	I r	536
			Oracles	A q 2 +	133

ALPHABETICAL INDEX.

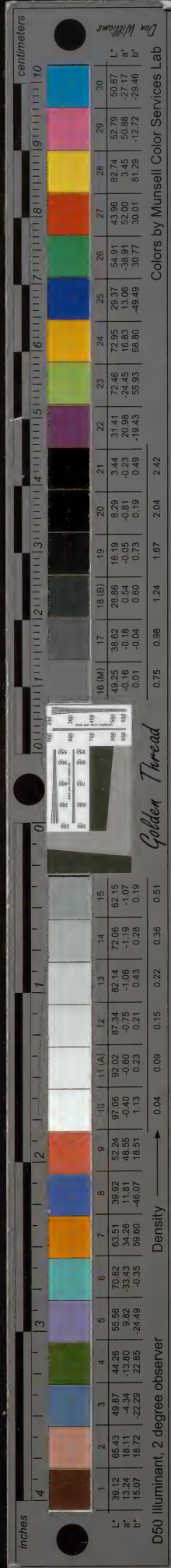
57

Orations	O c	815, 825, etc.	Paganism	A q	290
Oratorios <i>357 Δ</i>	O e 7 8	783	Pageants	U f 9	390
Oratory	O b, O c	815	Painters' lives	U z 1 Δ	927
sacred	A m	251	Painting	Is 2, It 6,	
Orcades	U c 2 Δ	941	I u 7	750, 698	
Orchards	I u 11 +	634	Painting, color	Is 2	752
Orders of architecture	It	722-724	American	Is 10	756
Ordinances, religious	A g	244, 264, 265	criticisms	Is 2	750 <i>modern</i>
Ordination sermons	A m	257	Dutch	Is 10	753 <i>modern</i>
Ordinance	I w	355, 683	English	Is 10	756
Oregon	U y 8	977	Flemish	Is 10	753
Ores	Il 4	549, 669	French	Is 10	754
Organ	Is 7 vi	786	German	Is 10	756
Organic chemistry	I k 4	547	Italian	Is 10	755
" remains	Il 2	562	landscape	Is 2	758
Oriental architecture	It	722	materials	Is 2	751
" churches	A o 1	281	methods	Is 2	751
" languages	O a 2	490	Painting (trade)	I u 10	698
" philosophy	I a 1	181	Paintings, collections	Is 6	759
" poetry	O d 6	890	Palæographia	Y i 2	21
Origin of language	O a	401, 409	Palæography	Y i 2	417, 419, 21
" religious belief	A q 1	201	Palæontology	Il 2	560
" species	Il 7	575	Palestine	U d 10 +	933, 956
Orkneys	U c 2 Δ	941	Palmistry	I e 2	133
Ornamental botany	I u 12	583	Palmira	U f 6	939
" design	It 6	745	Pamphlets	Ok, Up 6, U y 6	8
" gardening	I u 12	710	Panama	U d 13 Δ,	
" work	It 6	745	U y 10	979	
Ornithology	Il 6 +	598	Pantheism	A b	212
Orphan asylums	Il 7	361	Pantheistic psychology	I c	147
Orphans	E e	361	Papacy	A o 2	282
Orthoepey	O a 2	411, 421, 431, etc.	Papal Rome	U u 2	282, 945
Orthography, comparative	O a	411	Paper-hanging	It 6	698
English	O a 2	421	Paper manufacture	Y g	676
French	O a 2	441	Paper money	Il 2	332
German	O a 2	431	Papua	U d 4	995
Greek	O a 1	481	Paraguay	U y 11 Δ	989
Italian	O a 2	451	Parchment	Y g	26
Latin	O a 1	471	Parent and child	It E e 3	173, 347, 6
Spanish	O a 2	461	Paris	U d 8 Δ	914, 944
Osteology	In 1	591, 611	Parish law	E e, E f 3	343
Ottoman empire	U x 1	956	Parks, public	I u 12	711
" " geography	U b	915	Parliament	E f 3 +	323
" " history	U x 1	956	Parliamentary law	E g	349
" " travels	U d 10	915	" blue books	U p 5	328
Out-door sports	I x 1	796-799	" debates	U p 5	328
Overland route	U d 2	917	Parlor pastimes	I x 2	793
Oxford University	Il 2	378	Parodies	O d 2, etc.	818, 828, etc.
Oysters	Il 6, I u 15	594, 643	Parrots	Il 6 +	598
Pacific Ocean	U b 10	913	Parseeism, Parsees	A q 5	295
Pacific slope	U y 2 Δ	917, 977	Parthia	U e	935



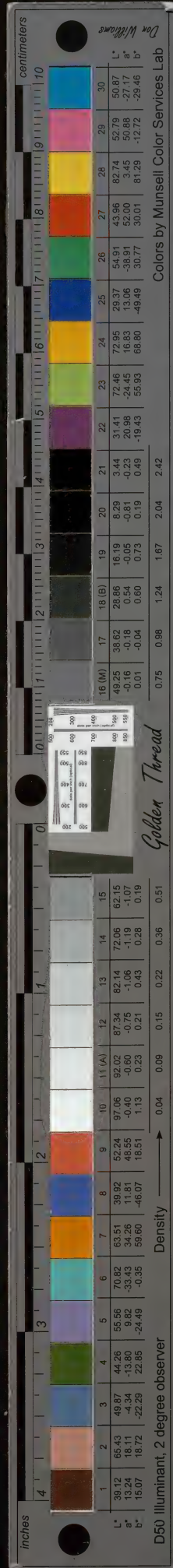
Partnership	Ee 2	343	Persian language	Oa 2	495
Parturition	In 4	618	“ literature	Yk 6	895
Passion plays	Oe	812	“ poetry	Od 6	895
Passions	Ig 1	157	Personal liberty	Ee	342
Pastel drawing	Is 2	741	“ narratives	Uz	920
Pastoral letters	Am	250	“ property	Ee	342
“ theology	Al	250	“ rights	Ee	342
Patagonia	Uy 11 iv	989	Perspective	Is 1	742
Patent law	Em	343	Peru	Uy 11 11+	985
Patents	Iu	608	Pests, agricultural	Iu 11 iv	632
Pathology	In 3	616	Petrification	Ik 3	560
Patriarchal institutions	An	321	Petroleum	Il 2 Δ	665, 549
Patriotism	Ig 1	172	Pharmacopœias	In 2	615
Patristics	Ak	189	Pharmacy	In 2	615
Patronage	Ii	177	Phi Beta Kappa	Ih 2	366
Pauperism	Ii 1	339	Philadelphia	Uy 8 (Pa.)	975
Pawnbroking	Ii 2	334	Philately	Yg 5	737
Peace and war	Ig 1	172	Philippine Islands	Ud 11, Ux 3	991
Pears	Iu 11 +	634	Philology	Oa	400
Peat	Il 4 +	644	Philosophers, lives of	Ia 1	921
Pedobaptism	Ao 6	264	Philosophical dictionaries	Ia 1	103
Peerage	Uh 2	322	Philosophy	Ia	100
Peloponnesus	Ul	938, 949	ancient	Ia 1	180
Penal law	Eh	345	biography of	Uz 1	921
Penance	Ag	244	Greek	Ia	182, 888
Peninsular war	Iw 1, Uv 3, Uw	946	history of	Ia 1	109
Penitentiaries	Eh	365	Latin	Ia	878
Penmanship	Yg 4	652	mental	Ic	150
Pennsylvania	Uy 8	975	modern	Ia	190
Pentateuch	Ac 3	222	moral	Ig	170
Perception	Ic	152	natural	Ik	530
Perfectionists	Ao 7, Ao 11	289	of art	Is	701
Perfumery	Iu 10	660, 646	history	Ua	901
Periodicals			language	Oa	401
bibliographical	Ya	10	literature	Yk	801
fine arts	Is	705	science	Ik	501
general	On	50	sociology	Im 3	301
history (<i>Amer.</i>) <i>etc.</i>	On 1, <i>etc.</i>	905	religion	Aq 1	201
literature	On	805	useful arts	Iu	601
medicine	In	610	Phœnicia	Ux 7	939
natural science	Il	505	Phœnician language	Oa 2	493
philology	Oa	405	Phonetic short-hand	Yh	653
philosophy	Ia	105	“ spelling	Oa	421
science	Iz	505	Phonograph	Ir 2	653
sociology	Im 3	305	Phonology	Oa	414
theology	Ar	205	Photographic chemistry	Is 5	771
useful arts	Iu	605	Photographs	Is 5, Uz 3	773
Perpetual motion	Iq	531	Photography	Is 5	770
Persecutions	Ao, Ao 12,		Photo-lithography	Is 5	775
	Ao 13	272	Phrase-books	Oa 2	415, 425, etc.
Persia, ancient history	Ue, Ux 8	412, 935	Phrenology	Id	139
“ modern “	Ud 11, Ux 8	955	Phthisis	In 5	616

Physical education	Ih	613	Poetry—		
“ geography	Ub II	551	Greek	Od I	881
Physicians, lives of	In 9	926	history of	Od	811
Physics	Ik	530	Italian	Od 5	851
dictionaries and ency-			Latin	Od I	871
clopedias	Ik	530	Oriental	Od 6	890
molecular	Ik	539	sacred	Ai, etc.	245, 821, 831, etc.
periodicals & transact's	Iy, Iz	530	Scottish	Od 2 Δ	821, 896
Physiognomy	Id	138	Spanish	Od 6	861
Physiography	Ub II	551	Poets, American	Od 2 v	928, 821
Physiology	In I	612	“ lives	Od 2 □, Uz I	928
“ comparative	Ih In I	591	Poisons	In 2 +	615
“ mental	In 8	131	Poland	Uq 4	949
“ vegetable	Il 5	581	“ travels	Ud 7	914
Piano-forte	Is 7 vi	786	Polar regions	Ud 3 +	919, 998, 999
Piets	Up 2 +	936, 941	Police	Eh	354
Picture galleries	Is 6	759	Polish language	Oa 2	497
Picturesque views & tours	Is 6 □	910-919	“ literature	Yk 6	899
Piedmont	Ih <i>Iu</i>	945	Politeness	Ig 3	177
Pig	Iu 13	636	Political associations	Ii	363
Pigeons	Iu 13	598	“ economy	Ii I	330
Pigmies	Im 2	573	“ essays	Ii, Up 6, Uy 6	329
Piracy	Eb, Uy 13	345	“ institutions	Ii	363
Pisciculture	Iu II □	639	“ pamphlets	Up 6, Uy 6 S,	329
Plague	In 5	616, 614	“ science	Ii	320
Planets	Ip	523	“ sermons	Am	256
Plans for building	It 2	692	“ speeches	Oc, Up 6, Uy 6	329
Plants	Il 5	580	Politics, American	Uy 6	324, 973
landscape gardening	Iu 12	710	“ British	Up 6	323, 942
paleontology	Il 2	560	Polity, ecclesiastical	Al	262
Plate	It 6 +	645, 671	Polygamy	Ig 2	173, 345
Plato	Ia	921, 184	Polyglot Bibles	Ac I	220
Platonic philosophy	Ia I	184	Polygraphy	Oi	40
Platonists, new	Ia I	186	Polynesia, botany	Il I, Il 5	589
Players' lives	<i>Oe</i> Uz I Δ	927	customs and costumes	Uf 9	399
Playing cards	Ix 2, Yg I	795	ecclesiastical history	Ac 15	279
Plays	Oe	812, 792	geography	Ub 9	919
Pleading	Ea	349	geology	Il 3	559
Plumbing	It 5	696	history	Ux 5	996
Plurality of worlds	Ip 3	521	languages	Oa 2	499
Pneumatics	Ik 3	533	statistics	Uc	319
Pneumatology	Al, Ic	150	travels	Ud 3	919
Poetical books of Bible	<i>Ac</i> Ac 3	223	Polyps	Il 6	593
“ selections	Od 2 iv, v 8 II, 821,	etc.	Polytheism	Aq	290
Poetry	Od	811	Pomology	Iu II +	634
American	Od 2	821	Pompeii	Uf 6 +	912, 937
collections of <i>Amer.</i>	Od 2 v	811	Ponds, artificial	Iu 12	714
criticism of	Ob 8 II, 821, etc.		Poor	Ii I	339
English <i>coll. 7</i>	Od 2 <i>od 2 v</i>	321	“ laws	Ef	343
French	Od 3	841	“ houses	Ii 7	339
German	Od 4	831			



Popery	Al 1, A o 2	282	Private grounds	Iu 12	712
Popes	A o 13,	922, 282,	“ libraries	Y d	19
“ individual	U z	274	“ theatricals	I x 2	792
“ lives of	A o 13	922	“ worship	A h	248
Popular science	I k	S, 500	Privateers	E b	341
“ antiquities	U f 9	571	Probabilities	I o 4	519
Population	I i 1, U c	312	Production	I i 1	338
Porcelain	I u 9	738	Productions of the soil	I u 11	633
Porto Rico	U y 9 vi	979	Professional ethics	E a, I n 3 +	174
Portrait painting	I s 2	757	Progressive Friends	A o 10	289
Portraits	U z 3	777	Progress of civilization	I m 3	312
Port Royal	A o 2 +	271	“ of population	U c	313
Portugal	U d 8, U w	946	Prohibited books	A o 12, Y b	28
Portuguese language	O a 2	469	Prohibition	I g 5	178
“ literature	Y k 6	860	Projectiles	I w	358, 531
“ poetry	O d 6	861	Projection	I s 1	744
Positivism	I a	146	Promissory notes	E e 2	343
Postage-stamps	Y g 5	383	Pronunciation	O a 411, 421, 431,	etc.
Post-offices	I i 3 +,		Property	I i 1	331
	U y 7 vii	383	“ law	E e	342, 343
Potato	I u 11	633	“ tax	I i 2	336
Pottery	I u 9	738, 673	Prophecy	A e, I e	231
Poultry	I u 13	636	Prophetical books of Bible	A e 3	224
Powder	I u 10, I w	662, 355	Prose composition, Greek	O a 1	485
Practice of medicine	I n 3	615	“ “ Latin	O a 1	475
Prayer	A h	217	Prosody, comparative	O a, O d	416
“ books	A g 2	244	English	O a 2	426
“ meetings	A h	247	French	O a 2	446
Preachers, lives of	A o 14	922	German	O a 2	436
Preaching	A m	250	Greek	O a 1	486
Precedence	U h	929	Italian	O a 2	456
Precedents, legal	E a, E e	343	Latin	O a 1	476
Precious metals	I i 2	549	Spanish	O a 2	466
“ stones	I t 6 +	549	Prostitution	I g 2, I n 7	176, 618
Predestination	A l	231	Protection	I i 1	337
Pregnancy	I n 4	618	Protestant episcopal	A o 3	283
Pre-historic archæology	U f 1	571	Protestantism	A o 11	283-289
Presbyterians	A o 4	284	“ and Romanism	A l 1	282
Prescriptions	I n 2	615	Protoplasm	I l 7	576
Press, liberty of	E e, E f	324	Protozoa	I l 6	593
Pretenders	U p 1 Δ	923, 842	palæontology	I l 2	563
Prices	I i 3	381, 382	Provençal language	O a 2, O d 3 +	449
“ current	O p	381, 382	Proverbs	O g 2	819
“ history of	I i 3 +	380	“ Book of	A e 3	223
Primeval man	I m 1, U f 1	571	Providence	A b	214
Primitive Christianity	A o	270	Provincialisms	O a 2 427, 437, etc.	
Primogeniture	E d, E e 1	322	Pruning	I u 11 +	634, 715
Printing	Y g	655	Prussia	U s 3	943
Prints, books of	I s 6	769	Psalms	A c, A i	223
Prison associations	E h	365	Pseudonyms	Y b 2	14
“ discipline	E h	365	Psychology	I c	140
Prisons	E h	365			

- | | | | | | |
|---------------------------------|--------------|----------------|---------------------------|---------------|---------------------|
| Public accounts | Uy7, etc. | 336 | Railways, laws of | Ef | 343 |
| “ administration | Ii | 350 | Rain | Ik3 | 551 |
| “ buildings | It7 | 725 | Rank | Uh | 322 |
| “ charities | Ii7 | 361 | Rarissima | Yi1 | 20 |
| “ documents | Uy7, Uy8 | 328 | Rationalism | Ab | 211, 155 |
| “ education | Ih2 | 370 | Readers | Ob1 | 418, 428, 438, etc. |
| “ finance | Ii2 | 336 | Reading, art of | Ob | 815 |
| “ health | In7 | 614 | Reading clubs | Ih4 | 374 |
| “ houses | Ig5 | 390 | “ courses | Ya | 15, 16 |
| “ lands | Uy7vi | 353 | “ for self-education | Ih4 | 374 |
| “ meetings | Ii, Uy6 | 360 | Real estate law | Eer | 343 |
| “ schools | Ih2 | 378 | Reason | Ic | 155 |
| “ speaking | Ob | 815 | Rebellion, Southern | Ub6+, Uy5 | 973 |
| “ worship | Ag | 246 | Rebellions of 1715 & 1745 | Up1△ | 941, 942 |
| Publishers' circulars | Yc | 15 | Recipe books | Iu15 | 640 |
| Pulpit oratory | Am | 250 | Reconstruction | Uy5 | 973, 976 |
| Pumps | Iq | 532 | Record Commission | Up5△ | 942 |
| Punctuation | Ob2 | 421 | Recreative arts | Ix | 790 |
| Punishment | Eh | 345 | Redemption | Al | 234 |
| Punjaub | Ux3 | 915, 954 | Reformation | Ao11 | 274 |
| Puritans | Ao5 | 277, 289 | “ in France | Ao11□ | 274 |
| Puseyism | Ao3 | 244, 283 | “ in Germany | Ao11+ | 274 |
| Puzzles | Ix2 | 793 | “ in Italy | Ao11iv | 274 |
| Pygmies | Im2 | 573 | “ <i>Swiss</i> in Spain | Ao11v | 274 |
| Pyramids | Uf4 | 916, 932 | Reformatory associations | Ii7 | 364 |
| Pyrites | Il4 | 549 | “ institutions | Eh | 364 |
| Pyrotechnics | Iu10 | 662 | Reformed church | Ao11△ | 289 |
| Pyrrhonism | Ia1 | 186 | “ Episcopal Ch'h | Ao3+ | 283 |
| Pythagorean philosophy | Ia1 | 182 | Reform schools | Ih2 | 364 |
| Quadrumana | Il6 | 599 | Regeneration | Al | 234 |
| Quadrupeds | Il6 | 599 | Regicides | Up9 | 923, 942 |
| Quakers | Ao10 | 289 | Regimen | In7 | 613 |
| Qualitative analysis | Ik4 | 544 | Regiments | Up8, Uy5 | 355 |
| Quantitative “ | Ik4 | 545 | Registers | Oo | 313 |
| Quarantine | Ii7 | 614 | “ U. S. officers | Uy7+ | 350 |
| Quarrying | Il4 | 628, 691 | Registration | Uc | 311 |
| Quaternions | Io1 | 518 | Regulations of armies | En, Uy7□, | |
| Queens, lives of <i>Us, Ur,</i> | Up7, Uz1 +c. | 923 | etc. | | 355 |
| Quietists | Ao2+ | 282 | Uy7v, etc. | | 359 |
| Quotations | Om6 | 819, 829, etc. | A | | 200 |
| Race-horse | Ix1 | 798 | Religion | Af | 201 |
| Races of men | Im2 | 572 | and philosophy | Afi | 215 |
| Racing | Ix1 | 798 | and science | Aq1 | 209, 270, 299 |
| Radiates | Il6 | 593 | history of | Aq1 | 201 |
| “ paleontology | Il2 | 563 | philosophy of | Al | 240 |
| Railroad corporations | Ii6 | 343, 385, 656 | practical | Aq | 290 |
| “ engineering | Ii6 | 625 | Religions, Non-Christian | Og, <i>Am</i> | 249 |
| “ locomotives | Ii6 | 621 | Religious anecdotes | Ao15 | 362 |
| “ transportation | Ii6 | 345, 385, 656 | “ associations | Ao14, Uz | 922 |
| Railroads | Ii6 | 385 | “ biography | Ag | 244 |
| Railway guides | Ii6 | 385 | “ ceremonies | Ao15, Ii7 | 260, 361 |
| “ excursions | Ii6 | 385, 913 | “ charities | | |



Religious education	I h	377	Rolls	Up 5△	942
“ encyclopedias	A	202	Rolls of honor	U y 5	355
“ essays	A l	204	Roman administration	Ed, Um	348, 937
“ fiction	Of	249	“ antiquities	U f 6	937
“ institutions	A o, A q	362	“ architecture	I t	722
“ orders	A o 15 +	271	“ art	I s 10	709
“ periodicals	A r	205	“ Catholicism	A l 1, A o 2	282
“ philosophy	A l	201	“ history, ancient	U m	937
“ superstitions	A q 1	133	“ “ modern	U u 2	945
Remains	I l 2	560	“ inquisition	A o 12	274, 937
Renaissance	U o 1	940	“ law	Ed	348
Rent	I i 1	333	“ literature	Y k 1	870
Repentance	A l	234, 241	“ mythology	A q 2	292
Reports, law	Ek	340	“ poetry	Od 1	871
“ mercantile	I i 3 △	380	“ sculpture	I s 4	733
Reptiles	I l 6	598	Romance	Of	813
“ paleontology	I l 2	568	English	Of 2	823
Republican institutions	I i	324	French	Of 3	843
Resistance of materials	I t	691	German	Of 4	833
Restoration, English	U p 7	942	Italian	Of 5	853
“ French	U v 4	944	language	O a 2	459
Resurrection	A f 2	236	Religious	Of	249
Retribution	A l	237	Spanish	Of 6	863
Revealed religion	A f	231	Romanic languages	O a 2	440-469
Revelation, Book of	A c 16	231	“ literature	Y k	840-860
Revenue	I i 2	336	Romanism	A l 1	282
Reviews	O n	S	Rome, ancient	U f 6, U m	937
Revivals	A o	269	books against	A l 1	282
Revolution, American	U y 3	973	Church of	A o 2	282
“ English	U p 1, 7	942	city, antiquities	U f 6 □	722, 733, 937
“ French (1789)	U v 2	944	empire	U m 1	912, 937
“ “ (1830)	U v 4	944	history	U m, U u 2	274, 937
“ “ (1848)	U v 5	944	missions	A o 15	266
Rhetoric	O b	815	modern	U u 2	945
“ sacred	A m	251	regal and republican	U m	937
Rhine	U d 6	914	theology	A l	282
Rhode Island	U y 8	974	topography	U f 6 □	912, 914
Rhododendron	I l 5 +	582	Romish church	A o 2	282
Riddles	I x 2 819, 829, etc.		Rope-making	I u 10	677
Riding	I x 1	798	Rose	I l 5	583, 716
Rifle	I x 1	683, 799	Rosierucians	U 2 i	366
Right of search	E b	341	Roumania	U x 1	949
Rights and liberties	E e, I i	342	Round the world	U d 3	913
Riots	E f	343	Rowing	I x 1	797
Rites and ceremonies	A g	244	Royal houses	U h 2	923
Ritualism	A o 3	244	“ lives	U p 7, U v 1, U q 3, U s, U z 1, etc.	923
River transportation	I i 5	387	Rubber manufactures	I u 8	675
Rivers	U b 10	551	Ruins	I t 7, U f	720
“ (engineering)	I i 5	624, 628	Rules of order	E g	343
Roads	I i 5	625	Ruminants	I l 6	599
Rocky Mountains	U y 2 +	557, 917			
Rodentia	I l 6	599			

ALPHABETICAL INDEX.

63

Rural architecture	It 2	728	Scandinavia	Ur, <i>ud 7</i>	948
“ cemeteries	Iu 12	719	Scandinavian language	O a 2	498
“ life	Iu 12	390, 630, 710	“ literature	Yk 4	898
“ sports	Ix 1	796	“ poetry	Od 6	898
Russia	Ud 7, Uq	947	Scepticism	Af	211
geography	Ub	914, 915	Schelling's philosophy	Ia	193
history	Uq	947	Schleswig-Holstein	Ur	943
literature	Yk 6	897	Scholastic philosophy	Ia	198
poetry	Od 6	897	School and church	Ih	377
travels	Ud 7	914, 915	apparatus	Ih	377
Russia in Asia <i>Ug 2</i>	Ud 11 +	915, 957	architecture	It 8	727
Russian America	Uy 8	977	Schools	Ih 2	378
“ language	O a 2	497	Bible in	Ih	372
Sabbatarians	An 1	289	common	Ih 2	378
Sabbath	An 1	263	industrial	Ih 2	610
“ reform	An 1	263	medical	In 9	355
“ schools	AO 15	268	military	Ih 2	359
Sacraments	Ag, Al	264, 265, 282	naval	Ih 2	372
Sacred biography	Ad	922	of art	Is 10	707
“ history	Ad	270	of painting	Is 10	753-756
“ music	Is 7 □	783	Sunday	AO 15	268
“ poetry	Ai	811, 821, etc.	Schopenhauer's philosophy	Ia	193
“ rhetoric	Am	251	Science and religion	Af 1	256
Sacrifices	Ae	221	and revelation	Af 1	215
Saddlery	Iu 8	685	biography of	Uz 1	925
Sagas	Aq 3, Ur	898	mental	Ic	150
Sahara	Ud 12 □	551, 916	moral	Ig	170
Sailing directions	Ub 10	656	Natural	Ik	500
Sailors <i>lv 1</i>	Iu 1, Up 8, Uy 14	387	of religion	Aq 1	201
St. Domingo	Uy 9 iv	979	Sciences and arts	I	500, 600
St. Helena	Ud 12 iv, Uv 3	997	Scientific education	Ih	507
St. John, Knights of	Uh 3 +	271	institutions	Iy	378
Saints	AO 13	922	men, lives of	Uz 1	925
“ lives of	AO 13	922	periodicals	Iz	
Sale catalogues of books	Ye	17, 18	schools	Ih 2	378
Salt manufacture	Iu 10	664	societies	Iy	506
Salvation <i>army AO 15</i>	Al	267, 15 234	transactions	Iy	505
Sandwich Islands	Ud 3, Ux 5	997	travels	Il 1	508
Sanitary commissions	Ii 7	364	Scotch churches	AO 4	284
“ “ U. S.	Uy 5	361	language	O a 2	496
“ legislation	In 7	614	literature	Yk 6	820, 896
“ measures	In 7	614	music	Is 7 △	780
Sanskrit language	Aq 4, O a 2	494	philosophy	Ia, Ic	191
Sardinia	Uu	945	poetry	Od 2 △	821, 896
Satan	Al, Ie	235	Scotland	Uc 2 △, Ud 9, Up 2	941
Satire	Ob	817	antiquities	Up 2 +	941
Savings banks	Ii 2	332	history	Up 2	941
Saxon language	O a 2	429	geography	Uc 2 △	914
Saxons	Up 1 +, Us	943	travels	Ud 9	914
Saxony	Us	914, 943	Scottish poetry	Od 2 △	821
			Screw propulsion	Iq, Iv	621, 699



Scripture chronologies	A d	220	Shemitic languages	O a 2	493
“ commentaries	A e	220	Shetland islands	U c 2 Δ	914, 941
“ concordances	A d	220	Ship-building	I v	699
“ dictionaries	A d	220	“ canals	I i 5	626, 387
“ harmonies	A d	220	Shipping and freighting	I i 3	385-7, 656
“ histories	A d	220	“ laws	E b	346
Scriptures	A c	220	Ships	I v	656, 699
Scrofulous diseases	I n 5	616	Shipwrecks	U d 5	913
Sculptors' lives	U g 1 Δ	927	Shoemaking	I u 8	685, 675
Sculpture	I s 4	730	Shooting	I x 1	799
Sea fishery	I v 3	639	Short-hand	Y h	653
laws	E b	346	Shrubbery	I u 12	716
Seal engraving	I s 4	736	Shrubs	I l 5 +	715
Seamanship	I v	656, 527	Siam	U x 3	959
Secession	U b 6 +, U y 5	342	Siberia	U d 11 +, U q 2	957
Second advent	A l	236, 289	Sibylline books	A q 2 +	292, 937
“ Empire	U v 6	944	Sicily	U u 4	945
“ sight	I e 4	133	Sick-room	I n 3	649
“ war with G. Britain	U y 4	942, 973	Sieges	U w 1	355, 623
Secret societies	U i	366	Sierra Leone	U d 6, U s 10	916,
Sects, Christian	A o 11	280		<i>U d 12 v1, U k 10</i>	966
Secular education	I h	377	Sight	I r	535
Self-education	I h 4	374	“ diseases	I n 5	613
Semitic languages	O a 2	493	Signals	I k 2 <i>Ik 3</i>	654
“ literature	A n, Y k	893	<i>service</i> Sign painting	I u 10	698
“ poetry	A n, O d 6	893	Silk culture	I u 14	638
Sensation	I c	152	“ manufacture	I u 14	677
Sensational psychology	I c	145	“ worm	I u 14	638, 595
Sense	I c	152	Silver metallurgy	I u 4	549
Sepoy war	U x 3 iv	942, 954	“ mining	I l 4	628
Sepulchres	U f 9	718	“ money	I i 2	332
Sepulture	I n 7	614	Simony	E d	270
Sermons	A m	252-259	Sin	A l	233
Serpent worship	A q 1	299	Singing	I s 7 +	784
Serpents	I l 6	598	Sintooism	A q 6	294
Servants	I u 17	647	Sisters of Charity	A o 15 +	271
Servia	U s 1	949	“ Mercy	A o 15 +	362
Service books	A g	244	Skating	I x 1	796
Sewerage	I n 7	614	Skepticism	A f	211
Sewing	I u 17	687	Skin diseases	I n 5	616
“ machine	I u 17	687	Skye	U c 2 Δ	941
Sex in education	I h	376	Slander	E h, I g 1	177, 345
“ nature	I g 2, I n 4	576	Slang	O a 2	427, 437, etc.
Sexes	I g 2, I n 4	136	Slating	I t 3	695
Sexual ethics	I g 2	176	Slavery, American	I i 4, U y 2, 5, 6	326,
“ science	I n 1	618			976
Shades and shadows	I s 1	744	“ and slave trade	I i 4	326
Shakers	A o 11	289	Slavic language	O a 2	497
Shakesperiana	O e 2 +	822	“ literature	Y k 6	897
Sheep	I u 13	636	“ poetry	O d 6	897
Shells	I l 6	594	Sleep	I e 4	135
“ fossil	I l 2	564	“ walking	I e 4	135

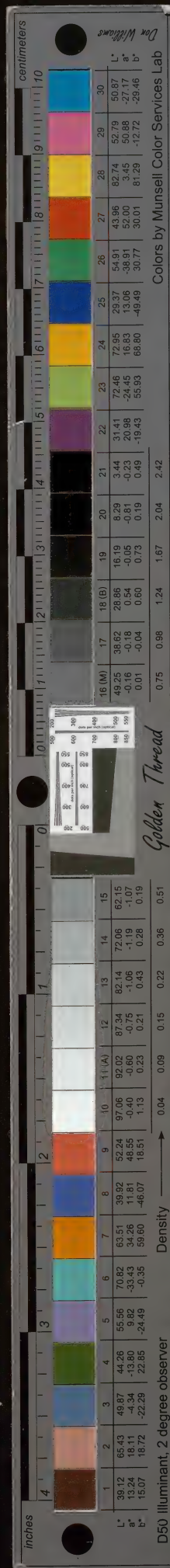
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Om 2 +

ALPHABETICAL INDEX.

65

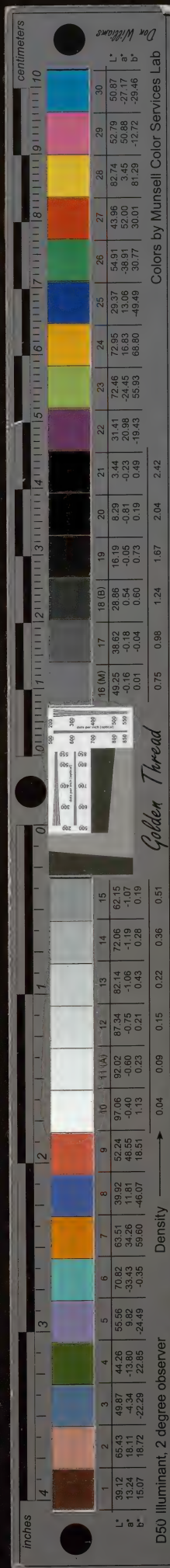
Smallpox	In 5	614, 616	South America travels	Ud 13 +	918
Soap-making	In 10	664	South Carolina	Uy 8	976
Social ethics	Ig	177	South Kensington Museum	In 16	506
“ organization	Ii	360	South Sea	Ud 3	999
“ science	Im 3	300	Southern States <i>uc5,</i>	Uy 8	976
“ worship	Ao	247	Sovereigns	Uz note	923
Socialism	Ii 1	335	Spain	Ud 8, Uw	946
Societies, benevolent	Ii 7	361	“ Arabs in	Ux 6 +	946
“ fine arts	Is	706	“ church in	Ao 11 v,	
“ history	Uy 8, etc.	906	“	Ao 2 □	274
“ literature	On	806	“ geography	Ub	914
“ natural science	Iy	506	“ history	Uw	946
“ philology	Oa	406	“ travels	Ud 8	914
“ philosophy	Iy	106	Spanish art	Is 10	709, 946
“ science	Iy	506	dictionaries	Oa 2	463
“ secret	Ui	366	drama	Oe 6	862
“ sociology	Im 3	306	fiction	Of 6	863
“ theology	Ao 15	206	language	Oa 2	460
“ useful arts	Iu	606	literature	Yk 6	860
Society	Ig, Ii	177	music	Is 7	780
Socinians	Ao 8 +	273	philosophy	Ia 1	196
Sociology	Im 3	300	poetry	Od 6	861
Socratic philosophy	Ia	183	Speakers	Ob 1	815, 825, etc.
Soils	Iu 11	631	Specie payment	Ii 2	332
Solar system	Ip	523	Species	Il 7	570, 590
Soldiers	Iw, Up 8, <i>Uy 7</i> □		Specifications for building	It	692
	Uy 14	355	Spectres	Ie 3	133
Solitude	Ig 1	171	Spectroscope	Ir 1	535
Somnambulism	Ie 4	135	Spectrum analysis	Ik 6	544
Songs	Od 2 +	784	Speech, organs of	In 1	611
“ & ballads, English	<i>Od 2 +</i>	784, 821	Speeches	Oc	815, 825, etc.
“ with music	Is 7 △	784	“ collections of	Oc	815
Sonnets	Od 2, 3, etc.		Spencer, philosophy of	Ia, <i>Im 3.</i>	192
<i>Sons of the Revolution</i>	<i>Uk 30</i>	811, 821, etc.	Spherical astronomy	Ip	521
Sophist philosophy	Ia	183	“ geometry	Io 2	513
Sorcery	Ie 3	133	“ trigonometry	Io 2	514
Soteriology	Al	234, 613	Spiders	Il 6	595
Soudan	Ud 12 □	916, 966	Spinoza's philosophy	Ia	147
Soul	Al, Ic	233	Spiritualism, modern	Ie 4	133
Sound	Ir	534	Spontaneous generation	Il 7	577
South Africa	Ud 12 △,		Sporting anecdotes	Ix 1 +	796
	Ux 11	968	“ guns	Ix 1	683, 799
botany	Il 1	586	“ magazines	Ix 1 +	796
geography	Ub, Ub 4	916	“ tours	Ix 1 +	796
South America	Uy 11	980	Sports and games	Ix	796
botany	Il 1	588	athletic	Ix 1	796
customs and costumes	Uf 9	398	field	Ix 1	796
ecclesiastical history	Ao 2	278	parlor	Ix 2	793
geography	Ub, Ub 5	918	Stables	It 2	636
geology	Il 3	558	Stage	Oe	792
history	Uy 11	980	Stained glass	Iu 9	745
statistics	Uc 6	318	Stairbuilding	It 4	694



Stammering	Ia	616	Stringed instruments	Is 7 vi	787
Stamps	Yg 5	383	Stuarts	Uh 2	923, 941-2
Standing army	Ii	355	Study, methods of	Ih 4	371
Starch manufacture	Iu 10	664	Stuttering	Ir	616
Stars	Ip	523	Sublime and beautiful	Is, Ob	701
State	Ii	320	Submarine armor	Iv 2	627
“ ethics	Ig	172	“ telegraph	Ik 2	384
“ papers	Uy 7, etc.,		Succession	Ii	323
	Up 5	328	Suez Canal	Ux 4 +	386, 662
“ rights	Uy 6	342	Suffrage	Ii	324
“ trials	Ek 1	345	Sugar-cane	Iu 11	633
States of the Church	Uu 2	914, 945	“ manufacture	Iu 15	664
States, the several	Uy 8	974-977	Suicide	Ig 1, In 8	131
Statesman Year book	Ip 1 Co	310	Sumatra	Ud 11, Ux 3	992
Statesmen, lives	Uz 1	923	Summer-houses	It 2	717
Statics	Iq	531	Sun	Ip	523
Statistical methods	Uc	311	Sunda	Ud 11	992
Statistics	Uc	310	Sunday	An 1	236
Statuary	Is 4	730	“ laws	An 1	263, 342
Statute law	Ef	343	“ schools	Ao 15	268
Steam-engine	Iq	621	Supernaturalism	Ie	133
“ fitting	Iq, It 5	696	Superstition	Aq, Ie	133
“ navigation	Iv	527, 656	Surgery	In 4	617
“ transportation	Ii 6, Iv	385, 656	Surnames	Uh 2	929
Steel	Iu 3	669	Surveying	Io 2	622
“ engraving	Is 3	762	Susceptibility	Ic	157
Stenography	Yh	653	Sweden	Ud 7, Ur	948
Stereoscopes and views	Ir 1, Is 5	776	Swedenborg	Ie	289, 922
Stereotyping	Yg	655	Swedenborgians	Ao 11	289
Stethoscope	In 3	616	Swedish language	Oa 2	498
Stewart's philosophy	Ic	191	literature	Yk 4	898
Stigmata	Ie 3	133, 282	poetry	Od 6	898
Still	Iu 10 +	663	Swimming	Ix 1	796
Stimulants	Ig 5, In 2 +	178, 615, 663	Swine	Iu 13	636
and narcotics	In 2 +	615	Switzerland	Ud 8, Uu 1	949
ethics of using	Ig 5	178	“ history	Uu 1 +	949
Stipple engraving	Is 3	765	“ travels	Ud 8	914
Stock, live	Iu 13	636	Syllogism	If	160
Stocks	Ii 2	333	Symbolism	Aq 1	219
Stoic philosophy	Ia 1	188	Synonyms, English	Oa 2	424
Stomach diseases	In 5	616	“ French	Oa 2	444
Stone age	Uf 1	571	“ German	Oa 2	434
Stone-cutting	Is 4	693, 736	“ Greek	Oa 1	484
Stoneware	Iu 9	673	“ Italian	Oa 2	454
Storms	Ik 3	551	“ Latin	Oa 1	474
Stoves	It 5, 644, 672, 697		“ Spanish	Oa 2	464
Strategy	Iw	355	Syphilis	In 5	616
Strawberries	Iu 11 +	634	Syria	Ud 10 +	956
Strength of materials	Ii 5	531, 621, 624, 691	Syriac language	Oa 2	493
Strikes	Ii 1	331, 367	Syro-Chaldaic	Oa 2	493
			Systematic botany	Il 5	582
			“ theology	Al	230

Tableaux

Table and parlor games	Ix 2	791	Theatres, ethics	Ig 4	175
Tables, dining	Ix 2	793	Theatricals, private	Ix 2	792
" mathematical	It 6	643	Theft	Uh	345
Table talk	Io 3	514	Theism	Ab	211
Tachygraphy	Og 1	819, 829, etc.	Theodicy	Al	231, 214
Tactics	Yh	653	Theologians	Ak	922
Tailoring	Iw	355	Theological essays	Al	204
Tales	Iu 10	687	" schools	Ih 2	207
Talmud	Of	813, 823, etc.	THEOLOGY	A	200
Tanning	An	296	" biography of	AO 14	922
Taouism	Iu 8	675	" devotional	Ag, Ah	240
Tapestry	Aq 6	294	" doctrinal	Al	230
Tariffs	Iu 5	747	" natural	Ab	210
Tartary	Ii 3+, Uy 7 Δ	337	" pastoral	Al	250
	Ud 11 Δ, Ux 13		" practical	Al	240
	951, 959		" systematic and		
Taste and criticism	Ob	701	polemic	Al	230
Taxation	Ii 2	336	Theoretical astronomy	Ip	521
Taxidermy	Il 6	579	" chemistry	Ik 4	541
Tea cultivation	Iu 11	633	" ethics	Ig	Ag 4+
Teachers and teaching	Ih	371	Therapeutics	In 3	615
Technical dictionaries	Iu		Thermometers	Ik 3	536
See also names of subjects.			Thibet	Ud 11 Δ	951
Technology	Iu	S	Thirty-nine articles	Ag 2	283
" chemical	Ik 5	660	Thirty years' war	Us	943
Teeth	In 4+	611, 617	Thomsonianism	In 3	615
Tehuantepec	Ud 13 Δ, Uy 10		Thought	Ic	153
	978		Throat diseases	In 5	616
Telegraph		384	Thunder	Ik 3	537
Telegraphy	Ik 2	654	Tides	Ip	521
Telephones	Ik 2	384, 654	Tiles	It 3	695
Telescope	Ip	522, 535	Tiling		695
Temperaments	Id	137	Timber	It 4	691
Temperance	Ig 5	178	Time standard		529
Temperature	Ik 3	536, 551	" tables		385
Templars	Uh 3+	366	Tin manufacture	Iu 4	671
Tennessee	Uy 8	976	" mineral	Il 4	549
Terra cotta	Iu 9	738	Tithes	Ed	336
Territories, U. S.	I 13, Uy 8	917, 977	Titles of honor	Uh	929
Testacea	Il 6	594	Tobacco	In 2+	178, 615,
Testament, New	Ac 5	225		633	
" Old	Ac 3	221	Toilet arts	Iu 17	646, 390
Testamentary law	Ac 3	349	Toleration, religious	Aa	272
Testimony	Ea	349	Tolls	Ii 5	336
Texas	Uy 8	976	Tombs	Is 4, Uf 9	718
Textile fabrics	Iu 5	677	Topographical engineering	Ii 5	622
Texts	Om 2+	428, 438,	Topography	Uc	910
	etc.		Torpedoes	Iv 2	662
" comparative		418	Total abstinence	Ig 5	178
Thames	Uc 3+	914	Toxicology	In 2+	615
Thanksgiving	Ag, Ah	244	Tract society	AO 15	362
Theatres	Oe	792	Tractarianism	AO 3	244, 283

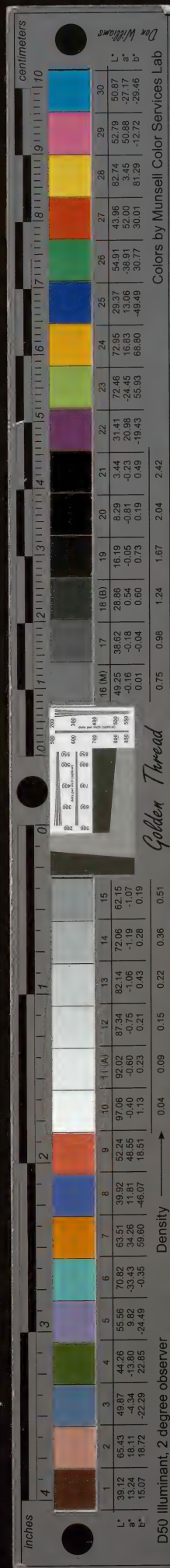


Trade	Ii 3	380	Turkey, travels	Ud 10	914-5
Trade lists of books	Y c	18	Turkish baths	In 7	613
Trade marks	Iu	608	“ language	O a 2	499
Trades, mechanic	Iu 10, etc.	680	“ literature	Y k 6	
“ unions	Ii 1, Ii 3 Δ		Turkistan	Ud 11 Δ	915, 959
	367, 606, 331		Turning	It 4, ⁹⁹	674
Tragedies	O e 812, 822, 832,		Tuscany	Uu	945
	etc.		Two Sicilies	Uu 4	914, 945
Training, physical	In 7	613	Type founding	Yg	671
Tramways	Ii 6	385, 388	Typography	Yg	655
Transactions	Iy 106, 206, 306,		Tyrol	Uu 1	943
	etc.		Understanding	Ic	153
Transcendentalism	Ic	142	Uniforms	Iw 1	355
Translating, art of	Ob 2	815, 410	Unitarians	A o 8	288
Translation, Greek authors	Od 1, Oe 1, etc.	880	United Service journals	Up 8, Uy 14	355
“ Latin authors	Od 1, Oe 1, etc.	870	United States	Uy 2	324, 973
Transportation	Ii 5	380, 656, 345	antiquities	Uf 8	974, 571
Transubstantiation	Al 1	282	botany	Il 5	587
Transylvania	Us 1	943	customs and costumes	Uf 9	397
Trapping	Ix 1	639	directories	Uc 7	917
Travellers, lives of	Uz 1	920	ecclesiastical history	A o	277
manuals for	Ud	910	fine arts	Is 10	709
Travelling, art of	Ud	913	gazetteers	Ub	917
Travels	Ud	910	geography	Ub, Ub 6	917
“ collections of	Ud 1	913, 8	geology	Il 3	557
“ general modern	Ud 2	913	government	Uy 7	324, 973
“ scientific	Il 1	508	history	Uy 2	973
Treason	Eh	345	literature	Yk 2 +	820
Treasury	Uy 7 Δ	352	poetry	Od 2 v	821
Treaties	Ec	341	statistics	Uc 6	317
Trees	Il 5 +, Iu 11 +	580	travels ^{Supreme Ct}	Ud 13 ^{447 18}	917
“ ornamental	Iu 12	715	Unity of human race	Im	572
Trespass	Eh	345	Universal History	Ue	909
Trials	Ek	340	“ language	O a	408
“ by court martial	En 1	347	Universalism	A o 8	288
“ civil	Ek 2, 3	348	Universities	Ih 2	378
“ criminal	Ek 1	345	University education	Ih	373
“ ecclesiastical	Ek 4	348	Upholstering	It 6	645
Trigonometry	Io 2	514	Uruguay	Uy 11 Δ	989
Trilobites	Il 6	565	Useful arts	Iu	600
Trinity	Al	232	biography of	Uz 1	926
Tripoli	Ux 9	961	Useful knowledge, collec-		
Troubadours	Od 3 +	449, 841	tions of	Ib	602
Trunk-making	Iu 10	685	Usury	Ii 2	334
Trusts and trustees	Ec Ec	344	Utah	A o 9	977
Tungusic language	O a 2	499	Vaccination	In 5	616
Tunis	Ux 9	961	Van Dieman's Land	Ud 4	919, 993
Tunnels	Ii 5	625	Vases	It 6 +	738
Turkey	Ud 10, Ux 1	949	Vaudois	A o 11, Un	272, 949
“ geography	Ub	914-5	Vedas	Aq 4	294, 894
“ history	Ux 81 1	956	Vegetable physiology	Il 5	581
“ in Asia	Ud 10, Ux 1	956	“ practice	In 3	615

ALPHABETICAL INDEX.

69

Vegetables	Iu 11	635	War of 1812	Uy 4	973
Vegetarianism	In 7	613	War science	Iw	355-359
Venereal diseases	In 5	616	Warehouses	Ii 3	380
Venezuela	Ud 13+, Uy 11	987	Warming	It 5	697
Venice	Uu 3	945	Washing	Iu 17	648
Ventilation	It 5	697	Washington City	Uy 7 viii	917, 976
Ventriloquism	Ix 2	133	“ Territory	Uy 8	977
Vermont	Uy 8	974	Watch-making	Iu 6	681
Versification	Od	811	Water	Il 2+	714, 551, 532
Vertebrates	Il 6	596	“ analysis	Il 2+	543
“ palæontology	Il 2	566	“ artificial ponds, etc.	Iu 12	714
Veterinary medicine	Iu 13	619	“ colors	Is 2	751
Vices	Ig 1 <i>Ux 5</i>	170	“ cure	In 3 □	615
Victoria in N. A.	Uy 9 viii	917, 971	“ wheels	Iq	531, 621
“ Queen	Up 7	923	“ works <i>phil. Uy 8</i>	Ii 5	628
Views of buildings	It 7	769, 779	Watering-places	In 3 △, Uer	613
Villas	It 2	728	Waterloo	Iw 1+	942, 944
Vine culture	Iu 11+	634, 716-717	Waters, mineral	Il 2+	615
Vinegar	Iu 11+	664	Wax flowers	Is 4	745
Vineyards	Iu 11+	634	Wealth	Ii 1, Ii 2	331
Violin	Is 7 VI	787	Weather	Ik 3	551
Virginia	Uy 8	976	Weaving	In 5	677
Virtue	Ig 1, 391	170	Wedding customs	Uf 9	390
Visible speech	Ir 2	414, 653	Weights and measures	Ii 3	389
Vision	Ih 3, In 5, Ir	535	Welsh bards	Up 3+	896, 928
Visions and dreams	Ie 4	135	“ language	Oa 2	496
Vital principle	Il 7	576, 612	West Indies	Uy 9	979
Vocal culture	Is 7+, Ob	784, 815	“ Virginia	Uy 8	976
“ music	Is 7+	784	West Point Registers	Uy 7+	355
“ organs	In 1	611	Western Islands (Azores)	Ud 8+	919, 997
“ “ diseases of	In 5	616	“ States	Uy 2+	977
Voice	Ir, Is 7+ <i>In 7</i>	784	“ Territories	Uy 2+	977
Volcanoes	Il 2	553	Whale	Il 6	599
Voyages	Ud	910	“ fisheries	Iv 3	639
“ collected	Ud 1	913	Wheat	Iu 11	633
“ general modern	Ud 2	913	Whigs and Democrats	Uy 6	324
“ round the world	Ud 3	913	“ English	Up 6	323
“ scientific	Il 1	913, 919	Whist	Ix 2	795
Wages	Ii 1	331	Will	Ie	159
Wakefulness	In 5	135	Wills	<i>Se. Uy, Uz, Uzi</i>	343
Waldenses	Ao 11, Uu	272, 945	Wind instruments	Is 7 VI	788
Wales	Uc 2 □, Up 3	942	Window gardening	Iu 12	716
“ language	Oa 2	496	Winds	Ik 3, Ub 10	551
“ literature	Yk 6	896	Wine	Iu 11+	663
“ music	Is 7	780	Wisconsin	Uy 8	977
“ poetry	Od 6	896	Wit	Of	819, 829, 839, etc.
Walks	Iu 12	713	Witchcraft	Ie 3	133
Wallachia	Ux 1	914, 949	Wives	Ig 2	173, 176
Wallachian language	Oa 2	459	Wolff's philosophy	Ia 5	193
War Department	Up 8, Uy 7 □	355	Woman, education	Ih	376
War ethics	En	172			



Woman, ethics	Ig 1	173, 176, 177	Writing, short-hand	Y h	653
“ law	8e3 8e3	343	“ machine		651
“ social condition of	Ig 2	177	Xylography	Y g	655
“ suffrage	Ig 2	324	Yachting	Iv 3	797
Women, diseases of	In 4	616	Year books	8e2	313
“ lives of	Uz 1	921-9	“ “ scientific	Iz	502
“ morals for young	Ig 2	170	“ “ statistical	O o	312, 313
Women's rights	Ig 2	324	Yellow fever	In 5	616
Wood engraving	Is 3	761	Young men's associations	A o 15	362
“ manufactures	Iu 10	674	Young women, morals of	Ig 2	170
Wool	Iu 13	636	Yucatan	Uy 10	917, 979
“ manufactures	Iu 5	677	Zend	O a 2	295
Working classes	Ii 1	331	Zend Avesta	A q 5	295
Works, complete	O i	810 S	Zodiac	Ip	521
World, Atlases of the	Ub	910	Zoölogy	Ii 6	590
“ voyages round	Ud 3	910	Zoöphytes	Ii 6	593
Worship	Ag, A 8e2		Zoroaster	A q 5	295
	Al	246-248	Zulus	Ud 12	U x 11
Wrecking and life-saving	Ud 5	656			916, 968
Wrestling	Ix 1	796	Zunis		917, 973
Writing	Yg	651			

EXPLICIT TABULA.





inches

centimeters

Don Williams

Colors by Munsell Color Services Lab

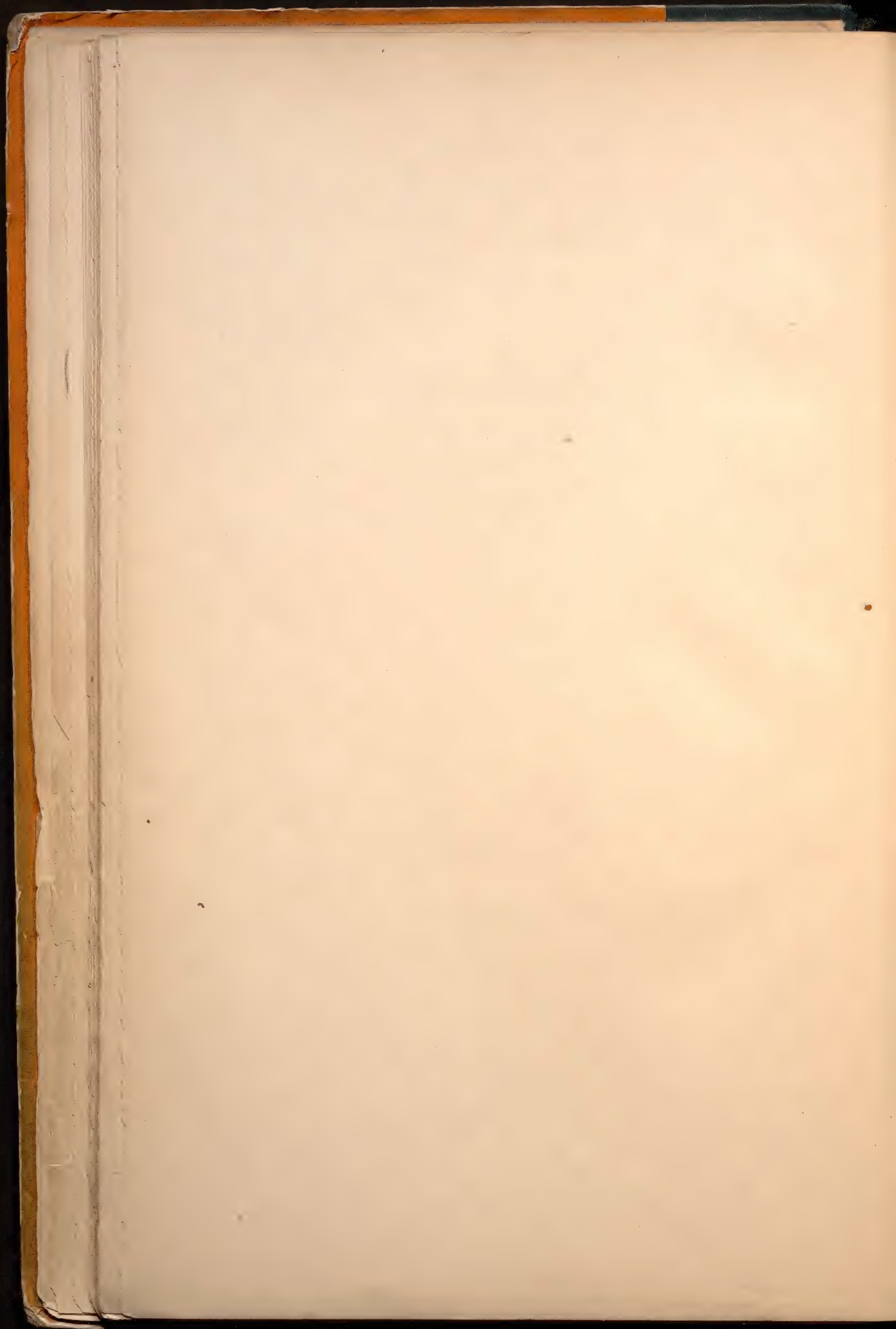
D50 Illuminant, 2 degree observer

Density

Golden Thread

	1	2	3	4	5	6	7	8	9	10	11(A)	12	13	14	15
L*	39.12	65.43	49.87	44.26	55.56	70.82	63.51	39.92	52.24	97.06	92.02	87.34	82.14	72.05	62.15
a*	13.24	18.11	-4.34	-13.80	9.82	-33.43	34.26	11.81	48.55	-0.40	-0.60	-0.75	-1.06	-1.19	-1.07
b*	15.07	18.72	-22.29	22.85	-24.49	-0.35	59.60	-46.07	18.51	1.13	0.23	0.21	0.43	0.28	0.19

	16(M)	17	18(B)	19	20	21	22	23	24	25	26	27	28	29	30
L*	49.25	38.62	28.86	16.19	8.29	3.44	31.41	72.46	72.95	29.37	54.91	43.96	82.74	52.79	50.87
a*	-0.16	-0.18	0.54	-0.05	-0.81	-0.23	20.98	-24.45	16.83	13.06	-38.91	52.00	3.45	50.88	-27.17
b*	0.01	-0.04	0.60	0.73	0.19	0.49	-19.43	55.93	68.80	-49.49	30.77	30.01	81.29	-12.72	29.46





inches 4 3 2 1 0 1 2 3 4 centimeters 10 9 8 7 6 5 4 3 2 1 0

16 (M) 17 18 (B) 19 20 21 22 23 24 25 26 27 28 29 30

	1	2	3	4	5	6	7	8	9	10	11 (A)	12	13	14	15
L*	39.12	65.43	49.87	44.26	55.56	70.82	63.51	39.92	52.24	97.06	92.02	87.34	82.14	72.06	62.15
a*	13.24	18.11	-4.34	-13.80	9.82	-33.43	34.26	11.81	48.55	-0.40	-0.60	-0.75	-1.06	-1.19	-1.07
b*	15.07	18.72	-22.29	22.85	-24.49	-0.35	59.60	-46.07	18.51	1.13	0.23	0.21	0.43	0.28	0.19

D50 Illuminant, 2 degree observer

Density → 0.04 0.09 0.15 0.22 0.36 0.51

Golden Thread

Colors by Munsell Color Services Lab

Don Williams

	16 (M)	17	18 (B)	19	20	21	22	23	24	25	26	27	28	29	30
L*	49.25	38.62	28.86	16.19	8.29	3.44	31.41	72.46	72.95	29.37	54.91	43.96	82.74	52.79	50.87
a*	-0.16	-0.18	0.54	-0.05	-0.81	-0.23	20.98	-24.45	16.83	13.06	-38.91	52.00	3.45	50.88	-27.17
b*	0.01	-0.04	0.60	0.73	0.19	0.49	-19.43	55.93	68.80	-49.49	30.77	30.01	-12.72	-12.72	29.46





inches 4 3 2 1 0

centimeters 10 9 8 7 6 5 4 3 2 1 0

Don Williams

Colors by Munsell Color Services Lab

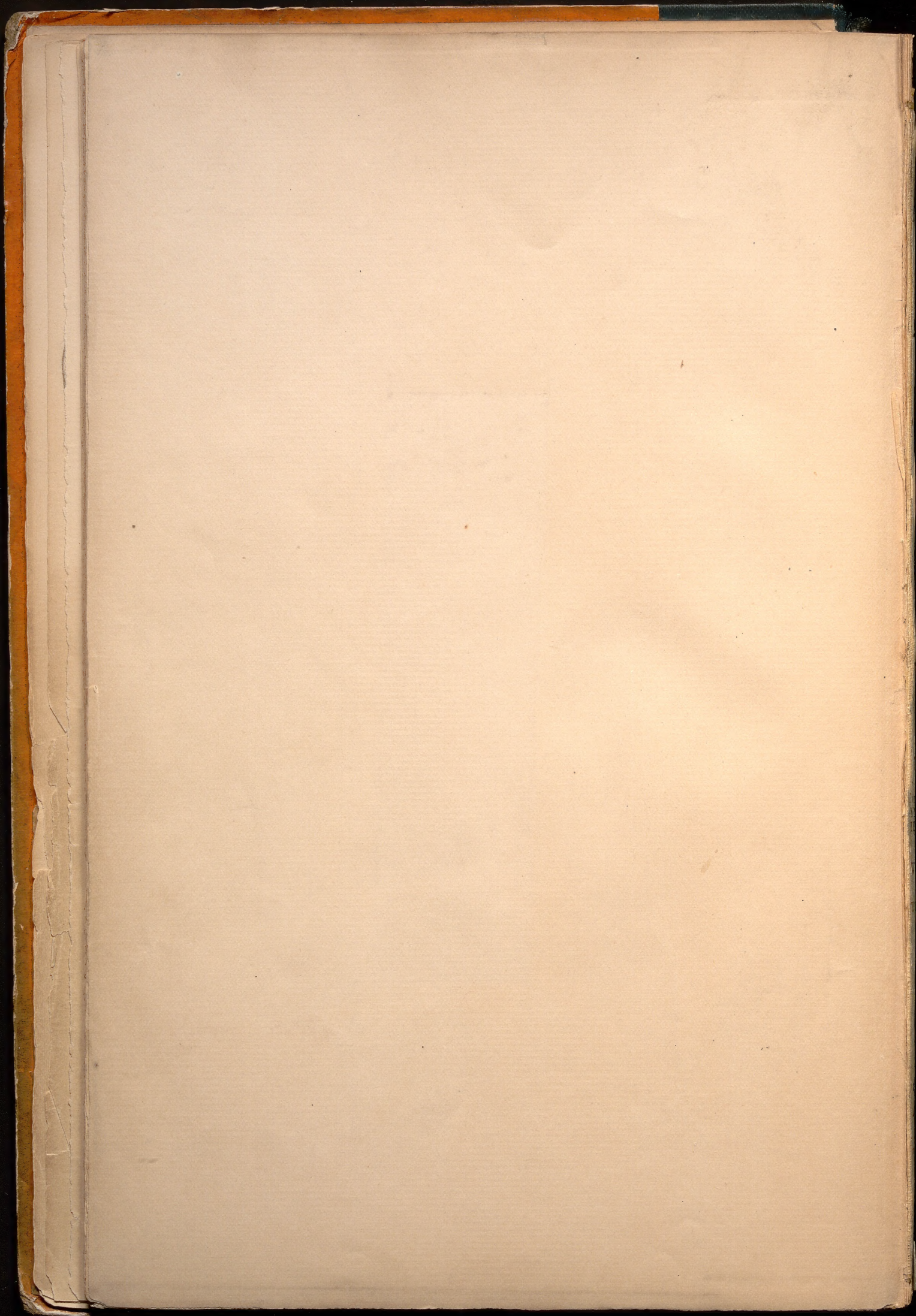
D50 Illuminant, 2 degree observer

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Golden Thread

	16(M)	17	18(B)	19	20	21	22	23	24	25	26	27	28	29	30
L*	49.25	38.62	28.86	16.19	8.29	3.44	31.41	72.46	72.95	29.37	54.91	43.96	82.74	52.79	50.87
a*	-0.16	-0.18	0.54	-0.05	-0.81	-0.23	20.98	-24.45	16.83	13.06	-38.91	52.00	3.45	50.88	-27.17
b*	0.01	-0.04	0.60	0.73	0.19	0.49	-19.43	55.93	68.80	-49.49	30.77	30.01	81.29	-12.72	29.46



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AUG 17 1884
FEB 20 1885
MAY 23 1886
DEC 30 1882

